Analytical Resources, LLC
Analytical Chemists and Consultants

08 June 2022

John Powell
HydroGeoLogic, Inc.
6340 Glenwood, Building 7, Suite 200
Overland Park, KS 66202

RE: Portland Harbor Superfund Site 2021-2022

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
22E0328	N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclosed Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Kelly Bottem, Client Services Manager

Cert# 100006-012

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Todd Poyfair

Project Number: K2204961
Project Manager: Todd Poyfair
QAP: LAB QAP

22E0328

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Hg T 7470A	Metals T 6020A	PCB 8082A
K2204961-011	SIB-SW-AAM131-CAR-ST-050522	1	Storm Water	5/5/22	0925	ARI	X	X	
K2204961-012	SIB-SW-AAQ005-CAR-ST-050522	1	Storm Water	5/5/22	0845	ARI	X	X	
K2204961-013	SIB-SW-AAM169-CAR-ST-050522	1	Storm Water	5/5/22	1438	ARI	X	X	
K2204961-014	SIB-SW-AAM107-CAR-ST-050522	3	Storm Water	5/5/22	1518	ARI	X	X	
K2204961-015	SIB-SW-AAP957-CAR-ST-050522	1	Storm Water	5/5/22	1640	ARI	X	X	
K2204961-021	SIB-SW-WR198-050522	1	Storm Water	5/5/22		ARI	X	X	X
K2204961-022	SIB-SW-WR186-050522	1	Storm Water	5/5/22		ARI	X	X	X
K2204961-023	SIB-SW-WR15-050522	1	Storm Water	5/5/22		ARI	X	X	X
K2204961-024	SIB-SW-WR428-050522	1	Storm Water	5/5/22		ARI	X	X	X
K2204961-025	SIB-SW-WR71-050522	1	Storm Water	5/5/22		ARI	X	X	X

Folder Comments:

05/18/22 only metals received -SDRD

Special Instructions/Comments
Please provide the electronic (PDF and EDD) report to the following e-mail address: ALKLS.Data@alsglobal.com.

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements
____**RUSH** (Surcharges Apply)
PLEASE CIRCLE WORK DAYS
1 2 3 4 5
____ **STANDARD**
Requested FAX Date: _____
Requested Report Date: 05/27/22

Report Requirements
____ I. Results Only
____ II. Results + QC Summaries
____ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data
PQL/MDL/J Y
EDD Y

Invoice Information
PO# 51K2204961
Bill to

Relinquished By: 5/17/22 Received By: 10:44 5/18/22 ARI Airbill Number: 5325 5608 9373

Analytical Resources, LLC
Analytical Chemists and Consultants

Printed: 5/20/2022 2:11:52PM

WORK ORDER

22E0328

Samples will be discarded 90 days after submission of a final report unless other instructions are received.

Client: HydroGeoLogic, Inc. **Project Manager:** Susan Dunnihoo

Project: Portland Harbor Superfund Site 2021-2022 **Project Number:** Portland Harbor Superfund Site 2021-2022

Preservation Confirmation

Container ID	Container Type	pH	
22E0328-01 A	HDPE NM, 125 mL HNO3	<2	pass
22E0328-02 A	HDPE NM, 125 mL HNO3	<2	Pass
22E0328-03 A	HDPE NM, 125 mL HNO3	<2	Pass
22E0328-04 A	HDPE NM, 125 mL HNO3	<2	Pass
22E0328-04 B	HDPE NM, 125 mL HNO3	<2	Pass
22E0328-04 C	HDPE NM, 125 mL HNO3	<2	Pass
22E0328-05 A	HDPE NM, 125 mL HNO3	<2	Pass
22E0328-06 A	HDPE NM, 125 mL HNO3	<2	Pass
22E0328-07 A	HDPE NM, 125 mL HNO3	<2	Pass
22E0328-08 A	HDPE NM, 125 mL HNO3	<2	Pass
22E0328-09 A	HDPE NM, 125 mL HNO3	<2	Pass
22E0328-10 A	HDPE NM, 125 mL HNO3	<2	Pass

Rm
Preservation Confirmed By

5-20-22
Date

Reviewed By

Date

Analytical Resources, LLC
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Cooler Receipt Form

ARI Client: ALS

COC No(s): NA

Assigned ARI Job No: 22E0328

Project Name:

Delivered by: Fed-Ex UPS Courier Hand Delivered Other:

Tracking No: 5325 5608 4373 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 2.9

Time 10:44

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 00097708

Cooler Accepted by: Date: 5/19/22 Time: 10:44

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: Date: 5-20-22 Time: 1301 Labels checked by:

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

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HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022	
6340 Glenwood, Building 7, Suite 200	Project Number:	Portland Harbor Superfund Site 2021-2022	**Reported:**
Overland Park, KS 66202	Project Manager:	John Powell	06/08/2022 17:04

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
22E0328-01	SIB-SW-AAM131-CAR-ST-050522	Water	05/05/22 09:25	05/18/22 13:02
22E0328-02	SIB-SW-AAQ005-CAR-ST-050522	Water	05/05/22 08:45	05/18/22 13:02
22E0328-03	SIB-SW-AAM169-CAR-ST-050522	Water	05/05/22 14:38	05/18/22 13:02
22E0328-04	SIB-SW-AAM107-CAR-ST-050522	Water	05/05/22 15:18	05/18/22 13:02
22E0328-05	SIB-SW-AAP957-CAR-ST-050522	Water	05/05/22 16:40	05/18/22 13:02
22E0328-06	SIB-SW-WR198-050522	Water	05/05/22 08:40	05/18/22 13:02
22E0328-07	SIB-SW-WR186-050522	Water	05/05/22 09:12	05/18/22 13:02
22E0328-08	SIB-SW-WR15-050522	Water	05/05/22 09:25	05/18/22 13:02
22E0328-09	SIB-SW-WR428-050522	Water	05/05/22 07:00	05/18/22 13:02
22E0328-10	SIB-SW-WR71-050522	Water	05/05/22 00:00	05/18/22 13:02

HydroGeoLogic, Inc.	Project: Portland Harbor Superfund Site 2021-2022	
6340 Glenwood, Building 7, Suite 200	Project Number: Portland Harbor Superfund Site 2021-2022	**Reported:**
Overland Park KS, 66202	Project Manager: John Powell	08-Jun-2022 17:04

Case Narrative

Client: HydroGeoLogic, Inc
Project: Portland Harbor Superfund Site
Work Order: 22E0328

Sample receipt

Samples as listed on the preceding page were received 5/18/22 under ARI work order 22E0328. For details regarding sample receipt, please refer to the Cooler Receipt Form. Please note that PCBs
were not received with the sample shipment as noted on the COC.

Total Metals - EPA Method 6020B and 7470A

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits.

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QUALIFIERS AND NOTES

Qualifier	Definition
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
J	Estimated concentration value detected below the reporting limit.
D	The reported value is from a dilution
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

SIB-SW-AAM131-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-01 A	SDG:	22E0328
Sampled:	05/05/22 09:25	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-142
% Solids:	0.00	Preparation:	REN EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 03:36
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	0.538	1	0.260	0.500	
7439-92-1	Lead	0.149	1	0.0513	0.100	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

SIB-SW-AAQ005-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-02 A	SDG:	22E0328
Sampled:	05/05/22 08:45	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-143
% Solids:	0.00	Preparation:	REN EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 03:41
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	0.617	1	0.260	0.500	
7439-92-1	Lead	0.147	1	0.0513	0.100	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

SIB-SW-AAM169-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-03 A	SDG:	22E0328
Sampled:	05/05/22 14:38	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-144
% Solids:	0.00	Preparation:	REN EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 03:46
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	0.502	1	0.260	0.500	
7439-92-1	Lead	0.168	1	0.0513	0.100	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

SIB-SW-AAM107-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-04 C	SDG:	22E0328
Sampled:	05/05/22 15:18	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-145
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 03:51
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	0.566	1	0.260	0.500	
7439-92-1	Lead	0.0990	1	0.0513	0.100	J

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

SIB-SW-AAP957-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-05 A	SDG:	22E0328
Sampled:	05/05/22 16:40	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-146
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 03:56
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	1.23	1	0.260	0.500	
7439-92-1	Lead	0.188	1	0.0513	0.100	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

SIB-SW-WR198-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-06 A	SDG:	22E0328
Sampled:	05/05/22 08:40	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-147
% Solids:	0.00	Preparation:	REN EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 04:01
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	0.550	1	0.260	0.500	
7439-92-1	Lead	1.33	1	0.0513	0.100	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

SIB-SW-WR186-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-07 A	SDG:	22E0328
Sampled:	05/05/22 09:12	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-148
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 04:06
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	0.897	1	0.260	0.500	
7439-92-1	Lead	2.53	1	0.0513	0.100	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

SIB-SW-WR15-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-08 A	SDG:	22E0328
Sampled:	05/05/22 09:25	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-149
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 04:11
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	0.537	1	0.260	0.500	
7439-92-1	Lead	0.775	1	0.0513	0.100	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

SIB-SW-WR428-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-09 A	SDG:	22E0328
Sampled:	05/05/22 07:00	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-150
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 04:17
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	0.598	1	0.260	0.500	
7439-92-1	Lead	0.337	1	0.0513	0.100	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

SIB-SW-WR71-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-10 A	SDG:	22E0328
Sampled:	05/05/22 00:00	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-154
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 04:41
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	0.442	1	0.260	0.500	J
7439-92-1	Lead	<0.0513	1	0.0513	0.100	U

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PREPARATION BATCH SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Batch: BKF0020 Batch Matrix: Water
Preparation: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SIB-SW-AAM131-CAR-ST-050522	22E0328-01	XDT_m1220601-142	06/01/22 12:08	Waters
SIB-SW-AAQ005-CAR-ST-050522	22E0328-02	XDT_m1220601-143	06/01/22 12:08	Waters
SIB-SW-AAM169-CAR-ST-050522	22E0328-03	XDT_m1220601-144	06/01/22 12:08	Waters
SIB-SW-AAM107-CAR-ST-050522	22E0328-04	XDT_m1220601-145	06/01/22 12:08	Waters
SIB-SW-AAP957-CAR-ST-050522	22E0328-05	XDT_m1220601-146	06/01/22 12:08	Waters
SIB-SW-WR198-050522	22E0328-06	XDT_m1220601-147	06/01/22 12:08	Waters
SIB-SW-WR186-050522	22E0328-07	XDT_m1220601-148	06/01/22 12:08	Waters
SIB-SW-WR15-050522	22E0328-08	XDT_m1220601-149	06/01/22 12:08	Waters
SIB-SW-WR428-050522	22E0328-09	XDT_m1220601-150	06/01/22 12:08	Waters
SIB-SW-WR71-050522	22E0328-10	XDT_m1220601-154	06/01/22 12:08	Waters
Blank	BKF0020-BLK1	XDT_m1220601-028	06/01/22 12:08	
LCS	BKF0020-BS1	XDT_m1220601-029	06/01/22 12:08	

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Form I

METHOD BLANK DATA SHEET

EPA 6020B

Total Metals

Blank

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021
Batch: BKF0020
Laboratory ID: BKF0020-BLK1
Prepared: 06/01/22 12:08
Matrix: Water
Preparation: REN EPA 600/4-79-020 4
Analyzed: 06/01/22 16:44
Sequence: SKF0017
Calibration: FF00009
Instrument: ICPMS1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium-52	ND	1	0.260	0.500	U
7440-47-3	Chromium-53	ND	1	0.239	0.500	U
7439-92-1	Lead-208	ND	1	0.0513	0.100	U

Analytical Resources, LLC
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LCS / LCS DUPLICATE RECOVERY

EPA 6020B

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Matrix:	Water	Analyzed:	06/01/22 16:49
Batch:	BKF0020	Laboratory ID:	BKF0020-BS1
Preparation:	REN EPA 600/4-79-020 4.1.4 HNO3 matrix	Sequence Name:	LCS
Initial/Final:	25 mL / 25 mL		

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	Q	LCS % REC. #	QC LIMITS REC.
Chromium-52	25.0	24.7		99.0	80 - 120
Chromium-53	25.0	25.8		103	80 - 120
Lead-208	25.0	25.2		101	80 - 120

* Indicates values outside of QC limits

Analytical Resources, LLC
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INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Calibration:	FF00009	Instrument:	ICPMS1
Calibration Date:	06/01/2022 14:24		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Chromium-52	0	0	0.5	73188	10	27833.7	20	26413.1	50	25230.64	100	25581.19
Chromium-53	0	0	0.5	3222	10	2983.4	20	2951.1	50	2876.44	100	2817.99
Lead-208	0	0	0.1	130140	10	124167.1	20	123759.6	50	125365	100	126262.1

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Calibration:	FF00009	Instrument:	ICPMS1
Calibration Date:	06/01/2022 14:24		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Chromium-52	29707.77	80.0	0.9999		0.998	
Chromium-53	2475.155	49.3	0.9999		0.998	
Lead-208	104949	49.0	1.0000		0.998	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 6/1/22 **Analyst:** MB **Sequence:** SKFØØ17 **Cal:** FFØØØØ9

All corrections made by analyst unless otherwise noted. MB 6/1/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	K511Ø		
		-CAL2	K4918		
		-CAL3	K4919		
		-CAL4	K492Ø		
		-CAL5	K5111		
		-CAL6	K4921		
		-IBL1	—		
		-ICV1	K3Ø2Ø		
		-ICB1	K511Ø		
		-CCV1	K5111		
		-CCB1	K511Ø		
	✓	-CRL1	—		Zn↑
		-CRL1	K4918		
		-IFA1	K4536		V-1, Cr53↑
		-IFB1	K4864		↓
		-HCV1	K4841		X
		-HCV2	K4537		Ba↑ - Ba < 200
		-IBL2&3	—		
		-CCV2			
		-CCB2			
		BKFØØ2Ø-BLK1	REN		
		↓ -BS1	↓		
		22EØ43Ø-Ø1	↓		(BKF20 QC source)
		22EØ428-Ø1	↓	5	Zn↑ Zn NR

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 6/1/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 6/1/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22EΦ428-Φ2	REN	5	
		-Φ3			
		-Φ4			
		22EΦ439-Φ1			
		22EΦ443-Φ1		2	
		22EΦ428-Φ1RE1		20	Zn only
		SEQ-CCV3			
		-CCB3			
		BKEΦ787-BLK~~Φ~~2	REN		Ag only
		-DS2			
		BKFΦΦ2Φ-DUP1			(Source: E430-1)
		-MS1			
		-MSD1			
		22EΦ424-Φ1			
		22EΦ261-Φ1		50	Ag only
		22EΦ4Φ7-Φ1		20	Ag, Cr only
		SEQ-IBL4+5			
		-CCV4			
		-CCB4			
		BKEΦ483-PS1	SWN	20	57330 60mL Ag only
		22EΦ237-Φ1			Ag, Cr only
		-Φ2			
		-Φ3			
		-Φ4			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 6/1/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22E0237-05	SWN	20	Ag Cr only
		-06			
		-07			
		-09			
		SEQ-IBL6			
		-CCV5			
		-CCB5			
	✓	-CAL1			
		-CCV6			
		-CCB6			
		BKE0677-BLK1	SWN	20	
		-BS1			
		22E0245-01			
		-02			
		-04			
		-05			
		-06			
		-07			
		-08			
		SEQ-IBL7			
		-CCV7			
		-CCB7			
		22E0245-09	SWN	20	
		-10			In^{-1} ↓/In^{-1} noisy No Cd

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 6/1/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22EΦ245-11	SWN	20	Ni 62 sl no. 3y- Isotopes match
		-13			
		-14			
		-16			
		BKEΦ677-DUP1			
		-MS1			56%R↓
		-MSD1			
		SEQ-IBL8			
		-CCV8			
		-CCB8			
		BKEΦ771-BLK1	SWN	20	
		-BS1			
		22EΦ234-Φ1			
		-Φ2			
		-Φ3			
		-Φ4			
		22EΦ245-Φ3			
		-12			
		-15			
		SEQ-IBL9			
		-CCV9			
		-CCB9			
		22EΦ234-Φ5	SWN	20	
		-Φ6			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: ~~6/2/22~~ 6/1/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 6/1/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22EØ234-Ø7	SWN	20	
		-1Ø			
		BKEØ774-DUP1			
		-MS1			Inst no-By-%R + Analytes OK
		-MSD1			
	✓	-PS1			60 mL J7334 - Not Needed
		-SRM1		100	
		SEQ-IBLA			
		-CCVA			
		-CCBA			
		BKFØØ22-BLK2	REN		As, Pb, Sb, V only
		-BS2			
		BKFØØ1Ø-BLK1	SWN	20	
		-BS1			
		22EØ234-Ø8			
		-Ø9			
		-11			
		-12			
		-13			
		-14			
		SEQ-CCVB			
		-CCBB			
		22EØ311-Ø1	REN	2	In-1 - Not Needed; As, V only
		-Ø2			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: ~~6/2/22~~ 6/1/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 6/1/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22EΦ311-Φ3	REN	2	✓ only
		↓ -Φ4	↓	↓	
		22EΦ295-Φ1	SWN	20	
		BKFΦΦ1Φ-DUP1			Int noisy-Poor Analytes OK/Match Parent
		-MS1			
		-MSD1			
	✓	↓ -PS1	↓	↓	60 mL J7330 - Not Needed
		SEQ-IBLB			
		-CCVC			
		-CCBC			
	✓	-CAL1			
		-CCVD			
		↓ -CCBD			
		22EΦ328-Φ1	REN		No Cd
		-Φ2			
		-Φ3			
		-Φ4			
		-Φ5			
		-Φ6			
		-Φ7			Zn 66↑ No Cd, Zn
		-Φ8			No Cd
		↓ -Φ9	↓		↓
		SEQ-IBLC			
		↓ -CCVE			

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 6/1/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBE			Cd↑/Cd noisy
		22EØ328-1Ø	REN		No Cd
		SEQ-IBLD			
		22EØ3Ø6-Ø6	REN		As, Mn only
		-Ø8			As only
		-26			
		-3Ø			
		-1Ø			
		-22			
		-24			
		SEQ-IBLE			
		-CCVF			
		-CCBF			
		22EØ3Ø6-28	REN		As only
		-Ø2			
		-2Ø			
		-18			Sc↑ - Not Needed
		SEQ-IBLF			
		22EØ3Ø6-32	REN		As only
		-Ø4			Sc↑ As, Pb, Sb only
		BKFØØ22-DUP3			
		-MS3			
		SEQ-IBLG			
		-CCVG			
		-CCBG			

Rinse/DI

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, June 01, 2022 13:36:52
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.13250
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	8571.0	8570.971	89.316	1.0	Standard
	In	114.9	160354.0	-1830954.089	1083.110	0.1	Standard
	U	238.1	205334.6	205334.601	2063.282	1.0	Standard
⌈	CeO	155.9	4014.6	0.030	0.000	1.6	Standard
| >	Ce	139.9	134312.6	134312.575	141.059	0.1	Standard
⌊	Ce++	70.0	2274.6	0.017	0.000	1.7	Standard
	Bkgd	220.0	6.7	6.667	3.482	52.2	Standard

Current Conditions File Data

Current Value	Description
0.91	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1562.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-16.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-2.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.91	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
1.00	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, June 01, 2022 13:45:17
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.13256
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	6910.7	6910.738	109.822	1.6	Standard
	In	114.9	137107.8	137107.810	313.179	0.2	Standard
	U	238.1	181890.8	181890.848	929.774	0.5	Standard
⌈	CeO	155.9	2593.9	0.022	0.000	1.7	Standard
| >	Ce	139.9	119474.4	119474.401	847.509	0.7	Standard
⌊	Ce++	70.0	1494.6	0.013	0.000	1.0	Standard
	Bkgd	220.0	1.8	1.800	0.506	28.1	Standard

Current Conditions File Data

Current Value	Description
0.90	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1562.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-16.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-2.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
1.00	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 6/1/2022 1:36:43 PM
End Time: 6/1/2022 1:47:21 PM

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 8570.97
Obtained Intensity (In 115): 160354.05
Obtained Intensity (U 238): 205334.60
Obtained Intensity (Bkgd 220): 6.67 - <Target not achieved>
Obtained Formula (Ce++ 70 / Ce 140): 0.017 (=2274.58 / 134312.57)
Obtained Formula (CeO 156 / Ce 140): 0.030 (=4014.56 / 134312.57) - <Target not achieved>
Obtained RSD (Be 9): 0.0104
Obtained RSD (In 115): 0.0006
Obtained RSD (U 238): 0.0100

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
1.42 mm	-0.73 mm	160357.99

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.9
Obtained Intensity (In 115): 139143.35
Obtained Formula (CeO 156 / Ce 140): 0.0206 (=2522.22 / 122313.39)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/6.975), Target/Obtained resolution (0.7/0.704)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.707)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.689)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.714)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -14.45

KED Mode QID - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -14.73

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 6910.74
Obtained Intensity (In 115): 137107.81
Obtained Intensity (U 238): 181890.85
Obtained Intensity (Bkgd 220): 1.80
Obtained Formula (Ce++ 70 / Ce 140): 0.013 (=1494.61 / 119474.40)
Obtained Formula (CeO 156 / Ce 140): 0.022 (=2593.90 / 119474.40)
Obtained RSD (Be 9): 0.0159
Obtained RSD (In 115): 0.0023
Obtained RSD (U 238): 0.0051

SmartTune Wizard - Details

```
Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 6/1/2022 1:36:43 PM

STD Performance Check
        Optimization Settings:
                Method: STD Performance Check.mth.
                Intensity Criterion: Be 9 > 2000
                Intensity Criterion: In 115 > 40000
                Intensity Criterion: U 238 > 30000
                Intensity Criterion: Bkgd 220 <= 5
                Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
                Formula Criterion: CeO 156 / Ce 140 <= 0.025
                RSD Criterion: Be 9.0122 < 0.05
                RSD Criterion: In 114.904 < 0.05
                RSD Criterion: U 238.05 < 0.05

        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 8570.97
                Obtained Intensity (In 115): 160354.05
                Obtained Intensity (U 238): 205334.60
                Obtained Intensity (Bkgd 220): 6.67 - <Target not achieved>
                Obtained Formula (Ce++ 70 / Ce 140): 0.017 (=2274.58 / 134312.57)
                Obtained Formula (CeO 156 / Ce 140): 0.030 (=4014.56 / 134312.57) - <Target not achieved>
                Obtained RSD (Be 9): 0.0104
                Obtained RSD (In 115): 0.0006
                Obtained RSD (U 238): 0.0100

                [Failed]
[Failed]

Torch Alignment
        Optimization Settings:
                Method: Torch Alignment.mth.
                Intensity Criterion: In 115 Maximum

        Optimization Results:
                Vertical      Horizontal      Intensity
[Passed]        1.42 mm     -0.73 mm       160357.99

Nebulizer Gas Flow STD/KED [NEB]
        Optimization Settings:
                Method: Optimize.mth.
                        Initial Try - Start/End/Step: 0.88/0.92/0.01.
                Intensity Criterion: In 115 Maximum
                Formula Criterion: CeO 156 / Ce 140 <= 0.0245

        Optimization Results:
        Initial Try

                Obtained Intensity (In 115): 139143.35
                Obtained Formula (CeO 156 / Ce 140): 0.0206 (=2522.22 / 122313.39)
[Passed]  Optimum value(s): 0.9
```

Mass Calibration and Resolution

Optimization Settings:

Method: Tuning.mth.

MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Iterations: 6

Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution

Peak height (%) for Res. Opt.: 10

Optimization Results:

Initial Try

Target/Obtained mass (7.016/6.975), Target/Obtained resolution (0.7/0.704)

Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.707)

Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.689)

Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.714)

[Passed] Optimum value(s): N/A

QID STD/DRC

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 1.000; Intercept = -14.45

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-14.5	25711.1
Mg	24	41	-14.5	43919.4
In	115	41	-12.5	145125
Ce	140	41	-11.5	124315
Pb	208	41	-9.5	93730.5
U	238	41	-9.5	184297

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 1.000; Intercept = -14.73

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-14.5	22629.9
Mg	24	41	-14	47811.9
In	115	41	-11.5	128007
Ce	140	41	-11	126978
Pb	208	41	-10	60439.6
U	238	41	-10	129153

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.

Intensity Criterion: Be 9 > 2000

```
        Intensity Criterion: In 115 > 40000
        Intensity Criterion: U 238 > 30000
        Intensity Criterion: Bkgd 220 <= 5
        Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
        Formula Criterion: CeO 156 / Ce 140 <= 0.025
        RSD Criterion: Be 9.0122 < 0.05
        RSD Criterion: In 114.904 < 0.05
        RSD Criterion: U 238.05 < 0.05

    Optimization Results:
    Initial Try
        Obtained Intensity (Be 9): 6910.74
        Obtained Intensity (In 115): 137107.81
        Obtained Intensity (U 238): 181890.85
        Obtained Intensity (Bkgd 220): 1.80
        Obtained Formula (Ce++ 70 / Ce 140): 0.013 (=1494.61 / 119474.40)
        Obtained Formula (CeO 156 / Ce 140): 0.022 (=2593.90 / 119474.40)
        Obtained RSD (Be 9): 0.0159
        Obtained RSD (In 115): 0.0023
        Obtained RSD (U 238): 0.0051

[Passed]  Optimum value(s): N/A

End Time: 6/1/2022 1:47:21 PM
```

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 14:24:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L				1184297	1	Standard
	Be	**9**		ug/L				6	68	Standard
	C	**13**		ug/L				33459	2	Standard
	Cl	**37**		ug/L				8651601	0	Standard
>	**Sc**	**45**		ug/L				1570082	0	Standard
	V	**51**		ug/L				8248	2	Standard
	V-1	**51**		ug/L				224	7	Standard
	Cr	**52**		ug/L				24127	1	Standard
	Cr	**53**		ug/L				160	6	Standard
	Mn	**55**		ug/L				777	4	Standard
>	**Ge**	**72**		ug/L				104575	0	KED
	Ni	**60**		ug/L				14	27	KED
	Ni	**62**		ug/L				4	89	KED
	Cu	**63**		ug/L				101	9	KED
	Cu	**65**		ug/L				59	34	KED
	Zn	**66**		ug/L				59	21	KED
	Zn	**67**		ug/L				13	61	KED
	As	**75**		ug/L				3	37	KED
	Se	**78**		ug/L				11	28	KED
	Y	**89**		ug/L				967000	0	Standard
	Kr	**83**		ug/L				64	32	Standard
>	**In-1**	**115**		ug/L				29935	0	KED
	Cd	**111**		ug/L				2	57	KED
	Cd	**114**		ug/L				1	102	KED
>	**In**	**115**		ug/L				1886335	1	Standard
	Ag	**107**		ug/L				64	13	Standard
	Sb	**121**		ug/L				64	19	Standard
	Sb	**123**		ug/L				54	16	Standard
	Ba	**135**		ug/L				46	10	Standard
	Ba	**137**		ug/L				88	14	Standard
>	**Tb**	**159**		ug/L				2858511	0	Standard
	Tl	**205**		ug/L				73	24	Standard
	Pb	**208**		ug/L				373	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 14:29:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1178737	1	Standard
	Be	**9**	**0.200**	ug/L	0.005	2	6	1116	0	Standard
	C	**13**		ug/L			33459	34135	0	Standard
	Cl	**37**		ug/L			8651601	8559996	0	Standard
>	**Sc**	**45**		ug/L			1570082	1565494	0	Standard
	V	**51**	**0.200**	ug/L	0.009	4	8248	13945	1	Standard
	V-1	**51**	**0.200**	ug/L	0.004	1	224	6053	1	Standard
	Cr	**52**	**0.500**	ug/L	0.018	3	24127	36594	1	Standard
	Cr	**53**	**0.500**	ug/L	0.010	2	160	1611	2	Standard
	Mn	**55**	**0.500**	ug/L	0.012	2	777	20343	1	Standard
>	**Ge**	**72**		ug/L			104575	103104	2	KED
	Ni	**60**	**0.500**	ug/L	0.021	4	14	810	2	KED
	Ni	**62**	**0.500**	ug/L	0.062	12	4	133	10	KED
	Cu	**63**	**0.500**	ug/L	0.007	1	101	2524	3	KED
	Cu	**65**	**0.500**	ug/L	0.012	2	59	1255	0	KED
	Zn	**66**	**6.000**	ug/L	0.017	0	59	4313	1	KED
	Zn	**67**	**6.000**	ug/L	0.352	5	13	662	4	KED
	As	**75**	**0.200**	ug/L	0.005	2	3	66	3	KED
	Se	**78**	**0.500**	ug/L	0.021	4	11	31	1	KED
	Y	**89**		ug/L			967000	967661	1	Standard
	Kr	**83**		ug/L			64	67	28	Standard
>	**In-1**	**115**		ug/L			29935	28500	0	KED
	Cd	**111**	**0.100**	ug/L	0.011	11	2	38	10	KED
	Cd	**114**	**0.100**	ug/L	0.013	12	1	117	12	KED
>	**In**	**115**		ug/L			1886335	1896861	0	Standard
	Ag	**107**	**0.200**	ug/L	0.006	2	64	5038	3	Standard
	Sb	**121**	**0.200**	ug/L	0.005	2	64	5141	2	Standard
	Sb	**123**	**0.200**	ug/L	0.002	1	54	3874	0	Standard
	Ba	**135**	**0.500**	ug/L	0.012	2	46	3254	1	Standard
	Ba	**137**	**0.500**	ug/L	0.008	1	88	5501	1	Standard
>	**Tb**	**159**		ug/L			2858511	2906364	0	Standard
	Tl	**205**	**0.200**	ug/L	0.002	0	73	17730	0	Standard
	Pb	**208**	**0.100**	ug/L	0.001	0	373	13014	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 14:34:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1178471	2	Standard
	Be	**9**	**10.000**	ug/L	0.168	1	6	56809	0	Standard
	C	**13**		ug/L			33459	50524	1	Standard
	Cl	**37**		ug/L			8651601	8694876	0	Standard
>	**Sc**	**45**		ug/L			1570082	1545728	1	Standard
	V	**51**	**10.000**	ug/L	0.110	1	8248	302054	1	Standard
	V-1	**51**	**10.000**	ug/L	0.088	0	224	296997	1	Standard
	Cr	**52**	**10.001**	ug/L	0.140	1	24127	278337	0	Standard
	Cr	**53**	**10.001**	ug/L	0.127	1	160	29834	1	Standard
	Mn	**55**	**10.001**	ug/L	0.186	1	777	399016	0	Standard
>	**Ge**	**72**		ug/L			104575	103951	0	KED
	Ni	**60**	**10.001**	ug/L	0.025	0	14	16698	0	KED
	Ni	**62**	**10.001**	ug/L	0.379	3	4	2751	4	KED
	Cu	**63**	**10.000**	ug/L	0.086	0	101	48947	1	KED
	Cu	**65**	**10.001**	ug/L	0.060	0	59	25088	0	KED
	Zn	**66**	**9.996**	ug/L	0.197	1	59	7197	1	KED
	Zn	**67**	**10.169**	ug/L	0.194	1	13	1177	1	KED
	As	**75**	**10.000**	ug/L	0.098	0	3	3298	1	KED
	Se	**78**	**9.998**	ug/L	0.245	2	11	392	2	KED
	Y	**89**		ug/L			967000	972191	2	Standard
	Kr	**83**		ug/L			64	77	5	Standard
>	**In-1**	**115**		ug/L			29935	28421	0	KED
	Cd	**111**	**10.000**	ug/L	0.041	0	2	3945	0	KED
	Cd	**114**	**10.000**	ug/L	0.167	1	1	10089	1	KED
>	**In**	**115**		ug/L			1886335	1891161	1	Standard
	Ag	**107**	**10.000**	ug/L	0.327	3	64	252701	4	Standard
	Sb	**121**	**10.000**	ug/L	0.092	0	64	253919	1	Standard
	Sb	**123**	**10.000**	ug/L	0.098	0	54	195067	1	Standard
	Ba	**135**	**10.001**	ug/L	0.103	1	46	67648	1	Standard
	Ba	**137**	**10.001**	ug/L	0.136	1	88	112842	0	Standard
>	**Tb**	**159**		ug/L			2858511	2925071	1	Standard
	Tl	**205**	**10.000**	ug/L	0.159	1	73	925461	1	Standard
	Pb	**208**	**10.000**	ug/L	0.224	2	373	1241671	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 14:39:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1160665	3	Standard
	Be	**9**	**20.053**	ug/L	0.666	3	6	113329	0	Standard
	C	**13**		ug/L			33459	50101	0	Standard
	Cl	**37**		ug/L			8651601	8904859	0	Standard
>	**Sc**	**45**		ug/L			1570082	1540366	1	Standard
	V	**51**	**19.958**	ug/L	0.429	2	8248	587658	0	Standard
	V-1	**51**	**19.959**	ug/L	0.406	2	224	585557	0	Standard
	Cr	**52**	**19.978**	ug/L	0.304	1	24127	528262	0	Standard
	Cr	**53**	**19.981**	ug/L	0.245	1	160	59022	1	Standard
	Mn	**55**	**20.011**	ug/L	0.336	1	777	796553	0	Standard
>	**Ge**	**72**		ug/L			104575	102089	1	KED
	Ni	**60**	**20.061**	ug/L	0.755	3	14	33278	2	KED
	Ni	**62**	**20.044**	ug/L	0.943	4	4	5456	3	KED
	Cu	**63**	**20.138**	ug/L	0.335	1	101	99424	1	KED
	Cu	**65**	**20.039**	ug/L	0.387	1	59	49690	0	KED
	Zn	**66**	**20.170**	ug/L	0.223	1	59	14566	1	KED
	Zn	**67**	**20.399**	ug/L	0.384	1	13	2448	1	KED
	As	**75**	**20.113**	ug/L	0.056	0	3	6662	1	KED
	Se	**78**	**20.097**	ug/L	1.288	6	11	778	4	KED
	Y	**89**		ug/L			967000	966191	0	Standard
	Kr	**83**		ug/L			64	60	34	Standard
>	**In-1**	**115**		ug/L			29935	27867	0	KED
	Cd	**111**	**19.966**	ug/L	0.312	1	2	7668	1	KED
	Cd	**114**	**20.034**	ug/L	0.438	2	1	19953	1	KED
>	**In**	**115**		ug/L			1886335	1851021	0	Standard
	Ag	**107**	**20.085**	ug/L	0.296	1	64	505229	1	Standard
	Sb	**121**	**20.088**	ug/L	0.111	0	64	508104	1	Standard
	Sb	**123**	**20.050**	ug/L	0.093	0	54	386619	0	Standard
	Ba	**135**	**20.087**	ug/L	0.062	0	46	135295	0	Standard
	Ba	**137**	**20.072**	ug/L	0.186	0	88	224848	1	Standard
>	**Tb**	**159**		ug/L			2858511	2925550	1	Standard
	Tl	**205**	**19.967**	ug/L	0.147	0	73	1836260	0	Standard
	Pb	**208**	**19.986**	ug/L	0.118	0	373	2475193	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 14:44:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1135869	3	Standard
	Be	**9**	**50.110**	ug/L	1.740	3	6	280230	0	Standard
	C	**13**		ug/L			33459	30653	1	Standard
	Cl	**37**		ug/L			8651601	9019387	0	Standard
>	**Sc**	**45**		ug/L			1570082	1492147	0	Standard
	V	**51**	**50.220**	ug/L	0.519	1	8248	1452695	1	Standard
	V-1	**51**	**50.205**	ug/L	0.475	0	224	1456665	1	Standard
	Cr	**52**	**50.102**	ug/L	0.455	0	24127	1261532	0	Standard
	Cr	**53**	**50.056**	ug/L	0.643	1	160	143822	0	Standard
	Mn	**55**	**50.072**	ug/L	0.772	1	777	1944160	1	Standard
>	**Ge**	**72**		ug/L			104575	99755	0	KED
	Ni	**60**	**49.946**	ug/L	1.291	2	14	80522	2	KED
	Ni	**62**	**49.976**	ug/L	1.368	2	4	13260	2	KED
	Cu	**63**	**49.834**	ug/L	0.339	0	101	236358	0	KED
	Cu	**65**	**49.891**	ug/L	0.547	1	59	119520	1	KED
	Zn	**66**	**49.909**	ug/L	0.622	1	59	34841	1	KED
	Zn	**67**	**49.825**	ug/L	0.192	0	13	5731	0	KED
	As	**75**	**50.058**	ug/L	0.350	0	3	16291	0	KED
	Se	**78**	**49.921**	ug/L	0.328	0	11	1860	0	KED
	Y	**89**		ug/L			967000	944272	0	Standard
	Kr	**83**		ug/L			64	74	13	Standard
>	**In-1**	**115**		ug/L			29935	27071	1	KED
	Cd	**111**	**50.056**	ug/L	0.498	0	2	18776	1	KED
	Cd	**114**	**50.065**	ug/L	0.672	1	1	48755	2	KED
>	**In**	**115**		ug/L			1886335	1824538	1	Standard
	Ag	**107**	**49.825**	ug/L	0.258	0	64	1214060	1	Standard
	Sb	**121**	**50.050**	ug/L	0.582	1	64	1253831	0	Standard
	Sb	**123**	**50.027**	ug/L	1.160	2	54	953272	2	Standard
	Ba	**135**	**50.230**	ug/L	0.842	1	46	341258	1	Standard
	Ba	**137**	**50.237**	ug/L	0.881	1	88	567936	1	Standard
>	**Tb**	**159**		ug/L			2858511	2918931	0	Standard
	Tl	**205**	**50.335**	ug/L	0.443	0	73	4778863	1	Standard
	Pb	**208**	**50.121**	ug/L	0.273	0	373	6268252	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 14:51:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1080096	3	Standard
	Be	**9**	**100.499**	ug/L	3.129	3	6	543449	1	Standard
	C	**13**		ug/L			33459	41423	1	Standard
	Cl	**37**		ug/L			8651601	8925064	1	Standard
>	**Sc**	**45**		ug/L			1570082	1424748	1	Standard
	V	**51**	**102.070**	ug/L	1.659	1	8248	3018656	0	Standard
	V-1	**51**	**101.774**	ug/L	1.588	1	224	2995930	0	Standard
	Cr	**52**	**101.626**	ug/L	0.870	0	24127	2558119	1	Standard
	Cr	**53**	**100.627**	ug/L	0.792	0	160	281799	1	Standard
	Mn	**55**	**101.217**	ug/L	1.172	1	777	3909816	0	Standard
>	**Ge**	**72**		ug/L			104575	97001	1	KED
	Ni	**60**	**100.275**	ug/L	1.760	1	14	158627	0	KED
	Ni	**62**	**100.116**	ug/L	1.026	1	4	25925	0	KED
	Cu	**63**	**99.933**	ug/L	1.217	1	101	459722	0	KED
	Cu	**65**	**99.892**	ug/L	0.716	0	59	231784	0	KED
	Zn	**66**	**99.579**	ug/L	1.203	1	59	66613	0	KED
	Zn	**67**	**99.548**	ug/L	1.094	1	13	10959	1	KED
	As	**75**	**100.464**	ug/L	0.981	0	3	32287	0	KED
	Se	**78**	**99.786**	ug/L	2.673	2	11	3579	1	KED
	Y	**89**		ug/L			967000	910471	1	Standard
	Kr	**83**		ug/L			64	80	10	Standard
>	**In-1**	**115**		ug/L			29935	27009	0	KED
	Cd	**111**	**99.768**	ug/L	0.816	0	2	37050	0	KED
	Cd	**114**	**99.633**	ug/L	1.000	1	1	95628	0	KED
>	**In**	**115**		ug/L			1886335	1727596	3	Standard
	Ag	**107**	**101.165**	ug/L	2.218	2	64	2427062	1	Standard
	Sb	**121**	**102.127**	ug/L	4.094	4	64	2605422	1	Standard
	Sb	**123**	**100.722**	ug/L	3.943	3	54	1860625	0	Standard
	Ba	**135**	**101.518**	ug/L	2.844	2	46	687470	1	Standard
	Ba	**137**	**101.719**	ug/L	3.264	3	88	1154253	0	Standard
>	**Tb**	**159**		ug/L			2858511	2912799	0	Standard
	Tl	**205**	**99.537**	ug/L	1.080	1	73	9285975	0	Standard
	Pb	**208**	**100.269**	ug/L	0.973	0	373	12626208	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 14:59:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1128072	2	Standard
	Be	**9**	**0.004**	ug/L	0.001	40	6	27	28	Standard
	C	**13**		ug/L			33459	32670	0	Standard
	Cl	**37**		ug/L			8651601	8761015	0	Standard
>	**Sc**	**45**		ug/L			1570082	1459165	0	Standard
	V	**51**	**0.001**	ug/L	0.003	438	8248	7683	0	Standard
	V-1	**51**	**0.002**	ug/L	0.001	48	224	256	9	Standard
	Cr	**52**	**-0.002**	ug/L	0.011	472	24127	22365	1	Standard
	Cr	**53**	**0.001**	ug/L	0.003	289	160	152	5	Standard
	Mn	**55**	**0.007**	ug/L	0.001	13	777	1008	3	Standard
>	**Ge**	**72**		ug/L			104575	101587	1	KED
	Ni	**60**	**0.001**	ug/L	0.002	167	14	16	24	KED
	Ni	**62**	**0.000**	ug/L	0.008	1645	4	4	49	KED
	Cu	**63**	**0.006**	ug/L	0.002	33	101	128	8	KED
	Cu	**65**	**0.005**	ug/L	0.001	15	59	70	2	KED
	Zn	**66**	**0.038**	ug/L	0.016	43	59	84	12	KED
	Zn	**67**	**0.009**	ug/L	0.042	459	13	14	32	KED
	As	**75**	**0.023**	ug/L	0.010	41	3	10	30	KED
	Se	**78**	**0.073**	ug/L	0.080	109	11	13	22	KED
	Y	**89**		ug/L			967000	922405	2	Standard
	Kr	**83**		ug/L			64	49	16	Standard
>	**In-1**	**115**		ug/L			29935	27821	1	KED
	Cd	**111**	**0.007**	ug/L	0.006	87	2	5	47	KED
	Cd	**114**	**0.004**	ug/L	0.002	39	1	5	32	KED
>	**In**	**115**		ug/L			1886335	1830176	1	Standard
	Ag	**107**	**0.006**	ug/L	0.001	16	64	205	10	Standard
	Sb	**121**	**0.044**	ug/L	0.002	3	64	1258	2	Standard
	Sb	**123**	**0.046**	ug/L	0.006	12	54	962	10	Standard
	Ba	**135**	**0.005**	ug/L	0.001	20	46	83	10	Standard
	Ba	**137**	**0.002**	ug/L	0.002	64	88	114	15	Standard
>	**Tb**	**159**		ug/L			2858511	2810304	1	Standard
	Tl	**205**	**0.003**	ug/L	0.000	6	73	343	4	Standard
	Pb	**208**	**0.004**	ug/L	0.000	13	373	812	6	Standard

Sample Information

Sample Date/Time: Wednesday, June 01, 2022 14:51:38
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	**1.0000**	0.005	0.20	10	20	50	100
C	13							
Cl	37							
Sc	45							
V	51	**0.9993**	0.021	0.20	10	20	50	100
V-1	51	**0.9995**	0.021	0.20	10	20	50	100
Cr	52	**0.9996**	0.018	0.50	10	20	50	100
Cr	53	**0.9999**	0.002	0.50	10	20	50	100
Mn	55	**0.9998**	0.027	0.50	10	20	50	100
Ge	72							
Ni	60	**1.0000**	0.016	0.50	10	20	50	100
Ni	62	**1.0000**	0.003	0.50	10	20	50	100
Cu	63	**1.0000**	0.047	0.50	10	20	50	100
Cu	65	**1.0000**	0.024	0.50	10	20	50	100
Zn	66	**1.0000**	0.007	6.00	10	20	50	100
Zn	67	**0.9999**	0.001	6.00	10	20	50	100
As	75	**1.0000**	0.003	0.20	10	20	50	100
Se	78	**1.0000**	0.000	0.50	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.014	0.10	10	20	50	100
Cd	114	**1.0000**	0.036	0.10	10	20	50	100
In	115							
Ag	107	**0.9998**	0.014	0.20	10	20	50	100
Sb	121	**0.9992**	0.015	0.20	10	20	50	100
Sb	123	**0.9999**	0.011	0.20	10	20	50	100
Ba	135	**0.9996**	0.004	0.50	10	20	50	100
Ba	137	**0.9995**	0.007	0.50	10	20	50	100
Tb	159							
Tl	205	**0.9999**	0.032	0.20	10	20	50	100
Pb	208	**1.0000**	0.043	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:06:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1121909	3	Standard
	Be	**9**	**49.025**	ug/L	1.424	2	6	275384	1	Standard
	C	**13**		ug/L			33459	37830	0	Standard
	Cl	**37**		ug/L			8651601	9021679	0	Standard
>	**Sc**	**45**		ug/L			1570082	1467843	1	Standard
	V	**51**	**47.812**	ug/L	0.721	1	8248	1461001	1	Standard
	V-1	**51**	**48.377**	ug/L	0.777	1	224	1467345	0	Standard
	Cr	**52**	**48.348**	ug/L	0.750	1	24127	1265675	1	Standard
	Cr	**53**	**50.255**	ug/L	1.000	1	160	145050	0	Standard
	Mn	**55**	**49.103**	ug/L	0.765	1	777	1954494	0	Standard
>	**Ge**	**72**		ug/L			104575	100255	0	KED
	Ni	**60**	**49.838**	ug/L	0.052	0	14	81503	0	KED
	Ni	**62**	**50.308**	ug/L	1.183	2	4	13467	2	KED
	Cu	**63**	**50.102**	ug/L	0.596	1	101	238284	0	KED
	Cu	**65**	**50.350**	ug/L	0.822	1	59	120777	0	KED
	Zn	**66**	**49.217**	ug/L	0.569	1	59	34058	0	KED
	Zn	**67**	**50.490**	ug/L	1.620	3	13	5750	2	KED
	As	**75**	**48.896**	ug/L	0.366	0	3	16243	0	KED
	Se	**78**	**76.229**	ug/L	0.346	0	11	2829	0	KED
	Y	**89**		ug/L			967000	926210	1	Standard
	Kr	**83**		ug/L			64	86	7	Standard
>	**In-1**	**115**		ug/L			29935	27412	1	KED
	Cd	**111**	**49.936**	ug/L	0.345	0	2	18822	1	KED
	Cd	**114**	**50.379**	ug/L	0.610	1	1	49073	0	KED
>	**In**	**115**		ug/L			1886335	1801400	0	Standard
	Ag	**107**	**47.844**	ug/L	0.552	1	64	1197520	1	Standard
	Sb	**121**	**46.661**	ug/L	0.181	0	64	1242299	0	Standard
	Sb	**123**	**48.542**	ug/L	0.398	0	54	935867	1	Standard
	Ba	**135**	**48.055**	ug/L	0.385	0	46	339519	0	Standard
	Ba	**137**	**47.871**	ug/L	0.526	1	88	566846	0	Standard
>	**Tb**	**159**		ug/L			2858511	2907952	1	Standard
	Tl	**205**	**51.696**	ug/L	0.894	1	73	4814568	1	Standard
	Pb	**208**	**50.472**	ug/L	0.708	1	373	6344850	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:13:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1131980	2	Standard
	Be	**9**	**0.003**	ug/L	0.001	33	6	23	23	Standard
	C	**13**		ug/L			33459	32856	0	Standard
	Cl	**37**		ug/L			8651601	8780412	0	Standard
>	**Sc**	**45**		ug/L			1570082	1465414	2	Standard
	V	**51**	**-0.004**	ug/L	0.005	133	8248	7582	1	Standard
	V-1	**51**	**-0.000**	ug/L	0.000	184	224	201	5	Standard
	Cr	**52**	**-0.007**	ug/L	0.014	190	24127	22329	1	Standard
	Cr	**53**	**0.005**	ug/L	0.006	130	160	162	10	Standard
	Mn	**55**	**0.003**	ug/L	0.001	34	777	831	3	Standard
>	**Ge**	**72**		ug/L			104575	102110	0	KED
	Ni	**60**	**0.002**	ug/L	0.004	172	14	17	34	KED
	Ni	**62**	**0.005**	ug/L	0.007	136	4	5	33	KED
	Cu	**63**	**0.005**	ug/L	0.003	66	101	121	12	KED
	Cu	**65**	**0.003**	ug/L	0.003	106	59	66	13	KED
	Zn	**66**	**0.022**	ug/L	0.017	79	59	73	17	KED
	Zn	**67**	**-0.013**	ug/L	0.026	192	13	12	24	KED
	As	**75**	**0.008**	ug/L	0.004	55	3	5	25	KED
	Se	**78**	**0.084**	ug/L	0.013	14	11	13	3	KED
	Y	**89**		ug/L			967000	916079	1	Standard
	Kr	**83**		ug/L			64	77	8	Standard
>	**In-1**	**115**		ug/L			29935	28038	2	KED
	Cd	**111**	**0.000**	ug/L	0.002	352	2	2	21	KED
	Cd	**114**	**0.001**	ug/L	0.002	269	1	1	107	KED
>	**In**	**115**		ug/L			1886335	1788382	0	Standard
	Ag	**107**	**0.003**	ug/L	0.001	24	64	145	14	Standard
	Sb	**121**	**0.012**	ug/L	0.002	13	64	375	11	Standard
	Sb	**123**	**0.013**	ug/L	0.001	9	54	308	7	Standard
	Ba	**135**	**0.006**	ug/L	0.003	49	46	85	23	Standard
	Ba	**137**	**0.004**	ug/L	0.001	40	88	125	13	Standard
>	**Tb**	**159**		ug/L			2858511	2833319	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	2	73	231	1	Standard
	Pb	**208**	**0.002**	ug/L	0.000	8	373	633	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:18:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1116930	2	Standard
	Be	**9**	**48.785**	ug/L	1.350	2	6	272890	0	Standard
	C	**13**		ug/L			33459	30798	1	Standard
	Cl	**37**		ug/L			8651601	8982019	0	Standard
>	**Sc**	**45**		ug/L			1570082	1441973	1	Standard
	V	**51**	**46.816**	ug/L	0.484	1	8248	1405534	1	Standard
	V-1	**51**	**47.480**	ug/L	0.446	0	224	1414836	1	Standard
	Cr	**52**	**47.549**	ug/L	0.345	0	24127	1223171	1	Standard
	Cr	**53**	**49.786**	ug/L	0.189	0	160	141193	1	Standard
	Mn	**55**	**48.521**	ug/L	0.291	0	777	1897632	2	Standard
>	**Ge**	**72**		ug/L			104575	98874	0	KED
	Ni	**60**	**49.003**	ug/L	0.554	1	14	79035	1	KED
	Ni	**62**	**48.820**	ug/L	0.865	1	4	12889	1	KED
	Cu	**63**	**50.018**	ug/L	0.173	0	101	234613	0	KED
	Cu	**65**	**49.781**	ug/L	0.736	1	59	117778	1	KED
	Zn	**66**	**50.302**	ug/L	0.596	1	59	34330	1	KED
	Zn	**67**	**50.265**	ug/L	1.004	1	13	5647	2	KED
	As	**75**	**49.714**	ug/L	0.460	0	3	16288	1	KED
	Se	**78**	**48.793**	ug/L	0.440	0	11	1789	1	KED
	Y	**89**		ug/L			967000	910088	2	Standard
	Kr	**83**		ug/L			64	61	9	Standard
>	**In-1**	**115**		ug/L			29935	26722	2	KED
	Cd	**111**	**49.846**	ug/L	1.440	2	2	18306	0	KED
	Cd	**114**	**50.045**	ug/L	1.321	2	1	47504	1	KED
>	**In**	**115**		ug/L			1886335	1761437	2	Standard
	Ag	**107**	**46.521**	ug/L	0.865	1	64	1138545	2	Standard
	Sb	**121**	**45.963**	ug/L	1.028	2	64	1196207	1	Standard
	Sb	**123**	**48.791**	ug/L	1.314	2	54	919473	1	Standard
	Ba	**135**	**48.584**	ug/L	1.207	2	46	335546	1	Standard
	Ba	**137**	**48.075**	ug/L	1.383	2	88	556424	0	Standard
>	**Tb**	**159**		ug/L			2858511	2848389	0	Standard
	Tl	**205**	**51.324**	ug/L	0.666	1	73	4682369	1	Standard
	Pb	**208**	**50.147**	ug/L	0.110	0	373	6175535	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:26:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1154262	1	Standard
	Be	**9**	**0.003**	ug/L	0.001	25	6	22	17	Standard
	C	**13**		ug/L			33459	32648	0	Standard
	Cl	**37**		ug/L			8651601	8791007	0	Standard
>	**Sc**	**45**		ug/L			1570082	1475115	0	Standard
	V	**51**	**-0.005**	ug/L	0.005	110	8248	7610	1	Standard
	V-1	**51**	**-0.001**	ug/L	0.001	89	224	193	7	Standard
	Cr	**52**	**-0.016**	ug/L	0.020	125	24127	22264	1	Standard
	Cr	**53**	**-0.002**	ug/L	0.004	184	160	143	8	Standard
	Mn	**55**	**0.002**	ug/L	0.001	35	777	802	2	Standard
>	**Ge**	**72**		ug/L			104575	101131	1	KED
	Ni	**60**	**-0.001**	ug/L	0.004	308	14	12	55	KED
	Ni	**62**	**-0.004**	ug/L	0.014	343	4	3	124	KED
	Cu	**63**	**0.003**	ug/L	0.001	42	101	113	6	KED
	Cu	**65**	**0.009**	ug/L	0.005	55	59	80	14	KED
	Zn	**66**	**0.020**	ug/L	0.003	14	59	71	3	KED
	Zn	**67**	**-0.001**	ug/L	0.017	1120	13	13	14	KED
	As	**75**	**0.011**	ug/L	0.003	26	3	6	12	KED
	Se	**78**	**0.122**	ug/L	0.033	26	11	15	9	KED
	Y	**89**		ug/L			967000	917081	2	Standard
	Kr	**83**		ug/L			64	64	9	Standard
>	**In-1**	**115**		ug/L			29935	27937	1	KED
	Cd	**111**	**0.000**	ug/L	0.001	318	2	2	21	KED
	Cd	**114**	**0.002**	ug/L	0.003	148	1	3	97	KED
>	**In**	**115**		ug/L			1886335	1800697	0	Standard
	Ag	**107**	**0.003**	ug/L	0.001	19	64	134	10	Standard
	Sb	**121**	**0.046**	ug/L	0.000	0	64	1295	0	Standard
	Sb	**123**	**0.048**	ug/L	0.004	9	54	981	8	Standard
	Ba	**135**	**0.006**	ug/L	0.003	47	46	85	23	Standard
	Ba	**137**	**0.004**	ug/L	0.001	15	88	137	6	Standard
>	**Tb**	**159**		ug/L			2858511	2821350	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	13	73	283	10	Standard
	Pb	**208**	**0.002**	ug/L	0.000	3	373	579	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:34:28

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1160262	1	Standard
	Be	**9**	**0.189**	ug/L	0.002	1	6	1107	0	Standard
	C	**13**		ug/L			33459	35335	0	Standard
	Cl	**37**		ug/L			8651601	8739003	0	Standard
>	**Sc**	**45**		ug/L			1570082	1472783	0	Standard
	V	**51**	**0.186**	ug/L	0.005	2	8248	13412	0	Standard
	V-1	**51**	**0.187**	ug/L	0.003	1	224	5899	1	Standard
	Cr	**52**	**0.479**	ug/L	0.015	3	24127	34994	1	Standard
	Cr	**53**	**0.484**	ug/L	0.008	1	160	1551	1	Standard
	Mn	**55**	**0.477**	ug/L	0.011	2	777	19754	2	Standard
>	**Ge**	**72**		ug/L			104575	102751	1	KED
	Ni	**60**	**0.473**	ug/L	0.039	8	14	808	9	KED
	Ni	**62**	**0.510**	ug/L	0.016	3	4	144	2	KED
	Cu	**63**	**0.527**	ug/L	0.007	1	101	2666	0	KED
	Cu	**65**	**0.524**	ug/L	0.039	7	59	1346	5	KED
	Zn	**66**	**10.846**	ug/L	0.129	1	59	7737	0	KED
	Zn	**67**	**10.200**	ug/L	0.457	4	13	1201	2	KED
	As	**75**	**0.192**	ug/L	0.022	11	3	68	10	KED
	Se	**78**	**0.667**	ug/L	0.062	9	11	36	7	KED
	Y	**89**		ug/L			967000	940632	1	Standard
	Kr	**83**		ug/L			64	57	17	Standard
>	**In-1**	**115**		ug/L			29935	28484	2	KED
	Cd	**111**	**0.077**	ug/L	0.023	30	2	32	26	KED
	Cd	**114**	**0.099**	ug/L	0.008	8	1	101	6	KED
>	**In**	**115**		ug/L			1886335	1825590	1	Standard
	Ag	**107**	**0.191**	ug/L	0.002	1	64	4910	1	Standard
	Sb	**121**	**0.194**	ug/L	0.000	0	64	5284	1	Standard
	Sb	**123**	**0.207**	ug/L	0.009	4	54	4104	3	Standard
	Ba	**135**	**0.458**	ug/L	0.013	2	46	3321	1	Standard
	Ba	**137**	**0.451**	ug/L	0.021	4	88	5502	4	Standard
>	**Tb**	**159**		ug/L			2858511	2850354	0	Standard
	Tl	**205**	**0.194**	ug/L	0.001	0	73	17762	0	Standard
	Pb	**208**	**0.115**	ug/L	0.003	2	373	14521	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:40:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1166181	0	Standard
	Be	**9**	**0.185**	ug/L	0.008	4	6	1085	3	Standard
	C	**13**		ug/L			33459	37071	0	Standard
	Cl	**37**		ug/L			8651601	8686779	0	Standard
>	**Sc**	**45**		ug/L			1570082	1498613	1	Standard
	V	**51**	**0.178**	ug/L	0.014	7	8248	13407	2	Standard
	V-1	**51**	**0.180**	ug/L	0.005	2	224	5778	1	Standard
	Cr	**52**	**0.473**	ug/L	0.039	8	24127	35452	1	Standard
	Cr	**53**	**0.480**	ug/L	0.024	4	160	1566	4	Standard
	Mn	**55**	**0.466**	ug/L	0.014	3	777	19674	1	Standard
>	**Ge**	**72**		ug/L			104575	103201	0	KED
	Ni	**60**	**0.449**	ug/L	0.027	6	14	770	5	KED
	Ni	**62**	**0.526**	ug/L	0.042	7	4	149	7	KED
	Cu	**63**	**0.493**	ug/L	0.008	1	101	2511	1	KED
	Cu	**65**	**0.485**	ug/L	0.014	2	59	1256	2	KED
	Zn	**66**	**5.857**	ug/L	0.108	1	59	4224	1	KED
	Zn	**67**	**5.267**	ug/L	0.141	2	13	629	1	KED
	As	**75**	**0.196**	ug/L	0.016	8	3	70	7	KED
	Se	**78**	**0.634**	ug/L	0.200	31	11	35	22	KED
	Y	**89**		ug/L			967000	929281	0	Standard
	Kr	**83**		ug/L			64	64	4	Standard
>	**In-1**	**115**		ug/L			29935	28357	0	KED
	Cd	**111**	**0.114**	ug/L	0.015	13	2	46	12	KED
	Cd	**114**	**0.105**	ug/L	0.004	4	1	106	3	KED
>	**In**	**115**		ug/L			1886335	1847982	1	Standard
	Ag	**107**	**0.193**	ug/L	0.006	2	64	5019	1	Standard
	Sb	**121**	**0.184**	ug/L	0.003	1	64	5090	2	Standard
	Sb	**123**	**0.187**	ug/L	0.004	1	54	3742	1	Standard
	Ba	**135**	**0.446**	ug/L	0.006	1	46	3280	2	Standard
	Ba	**137**	**0.437**	ug/L	0.010	2	88	5394	1	Standard
>	**Tb**	**159**		ug/L			2858511	2868859	0	Standard
	Tl	**205**	**0.188**	ug/L	0.004	1	73	17386	1	Standard
	Pb	**208**	**0.099**	ug/L	0.002	2	373	12598	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:45:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1135760	6	Standard
	Be	**9**	**0.002**	ug/L	0.000	13	6	15	13	Standard
	C	**13**		ug/L			33459	136437	1	Standard
	Cl	**37**		ug/L			8651601	16911831	2	Standard
>	**Sc**	**45**		ug/L			1570082	1500797	3	Standard
	V	**51**	**-0.040**	ug/L	0.028	69	8248	6664	16	Standard
	V-1	**51**	**3.431**	ug/L	0.110	3	224	106519	0	Standard
	Cr	**52**	**0.809**	ug/L	0.035	4	24127	44309	1	Standard
	Cr	**53**	**12.488**	ug/L	0.488	3	160	36940	0	Standard
	Mn	**55**	**0.123**	ug/L	0.005	4	777	5745	0	Standard
>	**Ge**	**72**		ug/L			104575	97981	1	KED
	Ni	**60**	**0.035**	ug/L	0.001	4	14	69	3	KED
	Ni	**62**	**0.108**	ug/L	0.033	30	4	32	25	KED
	Cu	**63**	**0.036**	ug/L	0.001	2	101	262	2	KED
	Cu	**65**	**0.041**	ug/L	0.005	12	59	153	9	KED
	Zn	**66**	**0.440**	ug/L	0.050	11	59	352	8	KED
	Zn	**67**	**0.449**	ug/L	0.094	20	13	62	15	KED
	As	**75**	**0.027**	ug/L	0.002	7	3	11	6	KED
	Se	**78**	**0.122**	ug/L	0.057	46	11	14	15	KED
	Y	**89**		ug/L			967000	912056	4	Standard
	Kr	**83**		ug/L			64	93	16	Standard
>	**In-1**	**115**		ug/L			29935	27014	1	KED
	Cd	**111**	**0.090**	ug/L	0.008	9	2	35	9	KED
	Cd	**114**	**0.079**	ug/L	0.016	20	1	76	19	KED
>	**In**	**115**		ug/L			1886335	1759548	4	Standard
	Ag	**107**	**0.063**	ug/L	0.002	3	64	1608	1	Standard
	Sb	**121**	**0.110**	ug/L	0.004	3	64	2923	3	Standard
	Sb	**123**	**0.111**	ug/L	0.005	4	54	2143	2	Standard
	Ba	**135**	**0.078**	ug/L	0.003	3	46	579	2	Standard
	Ba	**137**	**0.065**	ug/L	0.007	11	88	832	7	Standard
>	**Tb**	**159**		ug/L			2858511	2976915	3	Standard
	Tl	**205**	**0.004**	ug/L	0.000	5	73	474	5	Standard
	Pb	**208**	**0.025**	ug/L	0.001	3	373	3549	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:50:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1186802	2	Standard
	Be	**9**	**0.001**	ug/L	0.001	110	6	13	55	Standard
	C	**13**		ug/L			33459	136438	1	Standard
	Cl	**37**		ug/L			8651601	17342847	1	Standard
>	**Sc**	**45**		ug/L			1570082	1566884	1	Standard
	V	**51**	**-0.257**	ug/L	0.047	18	8248	-105	1433	Standard
	V-1	**51**	**3.200**	ug/L	0.035	1	224	103831	0	Standard
	Cr	**52**	**19.337**	ug/L	0.297	1	24127	554813	1	Standard
	Cr	**53**	**31.112**	ug/L	0.277	0	160	95932	0	Standard
	Mn	**55**	**19.182**	ug/L	0.188	0	777	815587	1	Standard
>	**Ge**	**72**		ug/L			104575	98153	0	KED
	Ni	**60**	**19.711**	ug/L	0.528	2	14	31564	2	KED
	Ni	**62**	**19.707**	ug/L	0.496	2	4	5167	2	KED
	Cu	**63**	**19.873**	ug/L	0.408	2	101	92585	1	KED
	Cu	**65**	**19.906**	ug/L	0.173	0	59	46787	1	KED
	Zn	**66**	**19.509**	ug/L	0.230	1	59	13251	0	KED
	Zn	**67**	**18.010**	ug/L	0.436	2	13	2017	3	KED
	As	**75**	**19.432**	ug/L	0.080	0	3	6322	0	KED
	Se	**78**	**0.196**	ug/L	0.090	45	11	17	17	KED
	Y	**89**		ug/L			967000	964211	0	Standard
	Kr	**83**		ug/L			64	80	9	Standard
>	**In-1**	**115**		ug/L			29935	26820	1	KED
	Cd	**111**	**19.655**	ug/L	0.661	3	2	7247	1	KED
	Cd	**114**	**19.424**	ug/L	0.524	2	1	18509	1	KED
>	**In**	**115**		ug/L			1886335	1815260	1	Standard
	Ag	**107**	**18.319**	ug/L	0.311	1	64	462040	1	Standard
	Sb	**121**	**0.070**	ug/L	0.002	2	64	1932	3	Standard
	Sb	**123**	**0.073**	ug/L	0.001	1	54	1466	2	Standard
	Ba	**135**	**0.072**	ug/L	0.001	1	46	560	1	Standard
	Ba	**137**	**0.073**	ug/L	0.006	8	88	950	8	Standard
>	**Tb**	**159**		ug/L			2858511	3074462	0	Standard
	Tl	**205**	**0.004**	ug/L	0.000	1	73	433	1	Standard
	Pb	**208**	**0.026**	ug/L	0.001	2	373	3828	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:55:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1128414	2	Standard
	Be	**9**	**191.425**	ug/L	7.498	3	6	1081500	1	Standard
	C	**13**		ug/L			33459	37800	1	Standard
	Cl	**37**		ug/L			8651601	8963960	0	Standard
>	**Sc**	**45**		ug/L			1570082	1470231	1	Standard
	V	**51**	**198.051**	ug/L	3.831	1	8248	6037286	1	Standard
	V-1	**51**	**197.370**	ug/L	3.803	1	224	5995619	1	Standard
	Cr	**52**	**196.005**	ug/L	2.204	1	24127	5070811	1	Standard
	Cr	**53**	**193.698**	ug/L	2.445	1	160	559676	2	Standard
	Mn	**55**	**197.206**	ug/L	3.039	1	777	7861423	2	Standard
>	**Ge**	**72**		ug/L			104575	94674	0	KED
	Ni	**60**	**198.198**	ug/L	2.268	1	14	306050	1	KED
	Ni	**62**	**198.343**	ug/L	0.682	0	4	50129	0	KED
	Cu	**63**	**196.391**	ug/L	3.017	1	101	881749	1	KED
	Cu	**65**	**196.612**	ug/L	1.740	0	59	445227	0	KED
	Zn	**66**	**195.697**	ug/L	1.940	0	59	127727	0	KED
	Zn	**67**	**194.279**	ug/L	3.233	1	13	20864	1	KED
	As	**75**	**197.281**	ug/L	0.843	0	3	61883	0	KED
	Se	**78**	**194.914**	ug/L	1.745	0	11	6816	1	KED
	Y	**89**		ug/L			967000	919371	1	Standard
	Kr	**83**		ug/L			64	134	14	Standard
>	**In-1**	**115**		ug/L			29935	25615	2	KED
	Cd	**111**	**198.827**	ug/L	3.566	1	2	70011	1	KED
	Cd	**114**	**199.640**	ug/L	2.814	1	1	181706	1	KED
>	**In**	**115**		ug/L			1886335	1728254	0	Standard
	Ag	**107**	**198.403**	ug/L	2.878	1	64	4764146	1	Standard
	Sb	**121**	**196.891**	ug/L	1.711	0	64	5028831	0	Standard
	Sb	**123**	**206.106**	ug/L	0.101	0	54	3812065	0	Standard
	Ba	**135**	**200.065**	ug/L	1.430	0	46	1355956	0	Standard
	Ba	**137**	**216.377**	ug/L	1.313	0	88	2457891	0	Standard
>	**Tb**	**159**		ug/L			2858511	2995882	0	Standard
	Tl	**205**	**187.648**	ug/L	2.659	1	73	18005424	0	Standard
	Pb	**208**	**186.091**	ug/L	1.926	1	373	24101527	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:00:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1078931	2	Standard
	Be	**9**	**281.363**	ug/L	9.705	3	6	1519865	0	Standard
	C	**13**		ug/L			33459	40509	0	Standard
	Cl	**37**		ug/L			8651601	8691628	0	Standard
>	**Sc**	**45**		ug/L			1570082	1395884	1	Standard
	V	**51**	**293.143**	ug/L	1.848	0	8248	8481577	1	Standard
	V-1	**51**	**293.790**	ug/L	1.660	0	224	8473960	1	Standard
	Cr	**52**	**291.630**	ug/L	0.165	0	24127	7152665	1	Standard
	Cr	**53**	**293.795**	ug/L	3.019	1	160	805815	0	Standard
	Mn	**55**	**294.412**	ug/L	4.086	1	777	11140784	0	Standard
>	**Ge**	**72**		ug/L			104575	91384	0	KED
	Ni	**60**	**294.709**	ug/L	6.471	2	14	439205	1	KED
	Ni	**62**	**295.545**	ug/L	2.414	0	4	72096	0	KED
	Cu	**63**	**289.626**	ug/L	4.782	1	101	1255113	1	KED
	Cu	**65**	**287.575**	ug/L	5.675	1	59	628537	1	KED
	Zn	**66**	**283.091**	ug/L	3.540	1	59	178319	0	KED
	Zn	**67**	**279.379**	ug/L	6.919	2	13	28951	1	KED
	As	**75**	**295.989**	ug/L	1.402	0	3	89616	0	KED
	Se	**78**	**288.077**	ug/L	1.472	0	11	9718	0	KED
	Y	**89**		ug/L			967000	870847	0	Standard
	Kr	**83**		ug/L			64	140	19	Standard
>	**In-1**	**115**		ug/L			29935	24967	1	KED
	Cd	**111**	**291.491**	ug/L	3.848	1	2	100054	0	KED
	Cd	**114**	**291.907**	ug/L	2.939	1	1	258981	0	KED
>	**In**	**115**		ug/L			1886335	1650567	0	Standard
	Ag	**107**	**287.970**	ug/L	4.572	1	64	6603096	0	Standard
	Sb	**121**	**289.549**	ug/L	3.693	1	64	7062987	1	Standard
	Sb	**123**	**303.362**	ug/L	2.088	0	54	5358656	1	Standard
	Ba	**135**	**333.024**	ug/L	1.558	0	46	2155624	0	Standard
	Ba	**137**	**338.407**	ug/L	4.563	1	88	3671047	0	Standard
>	**Tb**	**159**		ug/L			2858511	2953622	0	Standard
	Tl	**205**	**274.756**	ug/L	0.052	0	73	25993254	0	Standard
	Pb	**208**	**271.322**	ug/L	1.152	0	373	34646163	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:08:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1207393	1	Standard
	Be	**9**	**0.011**	ug/L	0.004	34	6	71	31	Standard
	C	**13**		ug/L			33459	32976	1	Standard
	Cl	**37**		ug/L			8651601	8946268	0	Standard
>	**Sc**	**45**		ug/L			1570082	1510446	2	Standard
	V	**51**	**0.002**	ug/L	0.008	429	8248	7989	2	Standard
	V-1	**51**	**0.045**	ug/L	0.003	6	224	1623	3	Standard
	Cr	**52**	**0.003**	ug/L	0.014	455	24127	23287	1	Standard
	Cr	**53**	**0.149**	ug/L	0.010	6	160	595	4	Standard
	Mn	**55**	**0.017**	ug/L	0.002	13	777	1431	3	Standard
>	**Ge**	**72**		ug/L			104575	103171	0	KED
	Ni	**60**	**0.029**	ug/L	0.009	31	14	62	23	KED
	Ni	**62**	**0.051**	ug/L	0.034	67	4	18	51	KED
	Cu	**63**	**0.025**	ug/L	0.004	13	101	224	8	KED
	Cu	**65**	**0.021**	ug/L	0.003	16	59	109	7	KED
	Zn	**66**	**0.194**	ug/L	0.025	12	59	196	8	KED
	Zn	**67**	**0.164**	ug/L	0.146	89	13	33	52	KED
	As	**75**	**0.024**	ug/L	0.004	15	3	11	11	KED
	Se	**78**	**0.197**	ug/L	0.099	50	11	18	20	KED
	Y	**89**		ug/L			967000	928120	1	Standard
	Kr	**83**		ug/L			64	68	32	Standard
>	**In-1**	**115**		ug/L			29935	28190	1	KED
	Cd	**111**	**0.013**	ug/L	0.006	47	2	7	33	KED
	Cd	**114**	**0.018**	ug/L	0.006	35	1	19	32	KED
>	**In**	**115**		ug/L			1886335	1827492	1	Standard
	Ag	**107**	**0.016**	ug/L	0.002	10	64	468	10	Standard
	Sb	**121**	**0.167**	ug/L	0.005	2	64	4563	4	Standard
	Sb	**123**	**0.178**	ug/L	0.005	2	54	3535	3	Standard
	Ba	**135**	**0.013**	ug/L	0.003	26	46	136	19	Standard
	Ba	**137**	**0.010**	ug/L	0.001	14	88	209	7	Standard
>	**Tb**	**159**		ug/L			2858511	2849405	0	Standard
	Tl	**205**	**0.015**	ug/L	0.001	4	73	1396	3	Standard
	Pb	**208**	**0.013**	ug/L	0.001	3	373	1991	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:19:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1183452	0	Standard
	Be	**9**	**0.002**	ug/L	0.001	28	6	20	18	Standard
	C	**13**		ug/L			33459	32624	0	Standard
	Cl	**37**		ug/L			8651601	8672496	0	Standard
>	**Sc**	**45**		ug/L			1570082	1515332	1	Standard
	V	**51**	**0.002**	ug/L	0.001	55	8248	8016	1	Standard
	V-1	**51**	**0.024**	ug/L	0.001	5	224	967	5	Standard
	Cr	**52**	**0.014**	ug/L	0.013	95	24127	23653	0	Standard
	Cr	**53**	**0.089**	ug/L	0.007	8	160	418	4	Standard
	Mn	**55**	**0.009**	ug/L	0.000	5	777	1111	0	Standard
>	**Ge**	**72**		ug/L			104575	105066	0	KED
	Ni	**60**	**0.017**	ug/L	0.002	10	14	44	6	KED
	Ni	**62**	**0.036**	ug/L	0.008	22	4	14	15	KED
	Cu	**63**	**0.012**	ug/L	0.001	9	101	162	3	KED
	Cu	**65**	**0.004**	ug/L	0.000	6	59	71	1	KED
	Zn	**66**	**0.172**	ug/L	0.020	11	59	184	7	KED
	Zn	**67**	**0.138**	ug/L	0.071	51	13	30	27	KED
	As	**75**	**-0.000**	ug/L	0.004	875	3	3	48	KED
	Se	**78**	**0.123**	ug/L	0.082	66	11	15	19	KED
	Y	**89**		ug/L			967000	935848	1	Standard
	Kr	**83**		ug/L			64	61	4	Standard
>	**In-1**	**115**		ug/L			29935	29121	1	KED
	Cd	**111**	**0.001**	ug/L	0.007	765	2	2	100	KED
	Cd	**114**	**0.001**	ug/L	0.003	491	1	1	188	KED
>	**In**	**115**		ug/L			1886335	1812307	0	Standard
	Ag	**107**	**0.004**	ug/L	0.001	30	64	158	18	Standard
	Sb	**121**	**0.053**	ug/L	0.001	1	64	1485	1	Standard
	Sb	**123**	**0.054**	ug/L	0.005	8	54	1104	7	Standard
	Ba	**135**	**0.005**	ug/L	0.001	24	46	83	11	Standard
	Ba	**137**	**0.005**	ug/L	0.002	37	88	139	15	Standard
>	**Tb**	**159**		ug/L			2858511	2864886	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	15	73	276	11	Standard
	Pb	**208**	**0.006**	ug/L	0.000	0	373	1069	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:25:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1173335	1	Standard
	Be	**9**	**49.635**	ug/L	1.016	2	6	291718	0	Standard
	C	**13**		ug/L			33459	30954	0	Standard
	Cl	**37**		ug/L			8651601	9130521	0	Standard
>	**Sc**	**45**		ug/L			1570082	1493930	0	Standard
	V	**51**	**46.861**	ug/L	0.305	0	8248	1457665	0	Standard
	V-1	**51**	**47.496**	ug/L	0.398	0	224	1466406	0	Standard
	Cr	**52**	**47.719**	ug/L	0.423	0	24127	1271766	0	Standard
	Cr	**53**	**49.863**	ug/L	0.871	1	160	146504	1	Standard
	Mn	**55**	**48.649**	ug/L	0.540	1	777	1971057	0	Standard
>	**Ge**	**72**		ug/L			104575	101878	0	KED
	Ni	**60**	**49.386**	ug/L	0.127	0	14	82074	1	KED
	Ni	**62**	**48.478**	ug/L	0.568	1	4	13187	1	KED
	Cu	**63**	**49.656**	ug/L	0.682	1	101	239977	0	KED
	Cu	**65**	**49.705**	ug/L	0.597	1	59	121176	1	KED
	Zn	**66**	**50.338**	ug/L	0.310	0	59	35398	0	KED
	Zn	**67**	**50.123**	ug/L	0.340	0	13	5802	0	KED
	As	**75**	**49.216**	ug/L	0.208	0	3	16615	0	KED
	Se	**78**	**49.590**	ug/L	1.206	2	11	1873	2	KED
	Y	**89**		ug/L			967000	930617	1	Standard
	Kr	**83**		ug/L			64	81	26	Standard
>	**In-1**	**115**		ug/L			29935	27949	0	KED
	Cd	**111**	**49.449**	ug/L	0.234	0	2	19004	0	KED
	Cd	**114**	**49.345**	ug/L	0.737	1	1	49010	1	KED
>	**In**	**115**		ug/L			1886335	1787625	0	Standard
	Ag	**107**	**47.740**	ug/L	0.404	0	64	1185710	0	Standard
	Sb	**121**	**46.369**	ug/L	0.542	1	64	1225095	1	Standard
	Sb	**123**	**48.329**	ug/L	0.530	1	54	924626	1	Standard
	Ba	**135**	**47.956**	ug/L	0.807	1	46	336220	1	Standard
	Ba	**137**	**47.809**	ug/L	0.749	1	88	561774	1	Standard
>	**Tb**	**159**		ug/L			2858511	2916167	0	Standard
	Tl	**205**	**50.455**	ug/L	0.481	0	73	4712847	1	Standard
	Pb	**208**	**48.854**	ug/L	0.562	1	373	6159162	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:33:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1198595	2	Standard
	Be	**9**	**0.003**	ug/L	0.002	54	6	24	39	Standard
	C	**13**		ug/L			33459	33442	1	Standard
	Cl	**37**		ug/L			8651601	8820351	0	Standard
>	**Sc**	**45**		ug/L			1570082	1523361	0	Standard
	V	**51**	**-0.001**	ug/L	0.003	430	8248	7977	0	Standard
	V-1	**51**	**0.016**	ug/L	0.000	2	224	731	1	Standard
	Cr	**52**	**-0.005**	ug/L	0.014	275	24127	23269	0	Standard
	Cr	**53**	**0.052**	ug/L	0.004	8	160	312	3	Standard
	Mn	**55**	**0.005**	ug/L	0.001	23	777	948	5	Standard
>	**Ge**	**72**		ug/L			104575	103021	1	KED
	Ni	**60**	**0.002**	ug/L	0.004	167	14	18	36	KED
	Ni	**62**	**0.000**	ug/L	0.011	5039	4	4	65	KED
	Cu	**63**	**0.008**	ug/L	0.004	44	101	140	13	KED
	Cu	**65**	**-0.000**	ug/L	0.004	2082	59	58	17	KED
	Zn	**66**	**0.037**	ug/L	0.002	6	59	85	3	KED
	Zn	**67**	**-0.036**	ug/L	0.017	46	13	9	20	KED
	As	**75**	**0.007**	ug/L	0.003	48	3	5	21	KED
	Se	**78**	**0.085**	ug/L	0.007	7	11	14	3	KED
	Y	**89**		ug/L			967000	920371	1	Standard
	Kr	**83**		ug/L			64	58	13	Standard
>	**In-1**	**115**		ug/L			29935	28238	1	KED
	Cd	**111**	**0.002**	ug/L	0.005	254	2	3	62	KED
	Cd	**114**	**0.003**	ug/L	0.004	119	1	4	90	KED
>	**In**	**115**		ug/L			1886335	1799875	0	Standard
	Ag	**107**	**0.003**	ug/L	0.000	10	64	135	5	Standard
	Sb	**121**	**0.059**	ug/L	0.002	3	64	1626	2	Standard
	Sb	**123**	**0.061**	ug/L	0.003	4	54	1228	4	Standard
	Ba	**135**	**0.011**	ug/L	0.001	4	46	124	3	Standard
	Ba	**137**	**0.010**	ug/L	0.001	5	88	201	2	Standard
>	**Tb**	**159**		ug/L			2858511	2856931	0	Standard
	Tl	**205**	**0.003**	ug/L	0.000	3	73	304	2	Standard
	Pb	**208**	**0.002**	ug/L	0.000	5	373	639	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:44:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1203868	2	Standard
	Be	**9**	**0.001**	ug/L	0.001	66	6	15	38	Standard
	C	**13**		ug/L			33459	41415	0	Standard
	Cl	**37**		ug/L			8651601	8568871	0	Standard
>	**Sc**	**45**		ug/L			1570082	1492953	0	Standard
	V	**51**	**0.008**	ug/L	0.003	31	8248	8100	1	Standard
	V-1	**51**	**0.022**	ug/L	0.001	2	224	898	1	Standard
	[redacted]	**52**	**[redacted]**	ug/L	0.007	7	24127	25455	1	Standard
	Cr	**53**	**0.143**	ug/L	0.005	3	160	573	2	Standard
	[redacted]	**55**	**[redacted]**	ug/L	0.000	4	777	1054	1	Standard
>	**Ge**	**72**		ug/L			104575	104518	1	KED
	[redacted]	**60**	**-[redacted]**	ug/L	0.004	970	14	13	47	KED
	Ni	**62**	**0.002**	ug/L	0.011	450	4	5	57	KED
	[redacted]	**63**	**[redacted]**	ug/L	0.003	27	101	149	9	KED
	Cu	**65**	**0.005**	ug/L	0.006	120	59	71	19	KED
	[redacted]	**66**	**[redacted]**	ug/L	0.020	13	59	164	7	KED
	Zn	**67**	**0.182**	ug/L	0.079	43	13	35	27	KED
	[redacted]	**75**	**-[redacted]**	ug/L	0.004	410	3	2	44	KED
	[redacted]	**78**	**[redacted]**	ug/L	0.021	17	11	15	4	KED
	Y	**89**		ug/L			967000	922488	0	Standard
	Kr	**83**		ug/L			64	66	7	Standard
>	**In-1**	**115**		ug/L			29935	29024	1	KED
	[redacted]	**111**	**-[redacted]**	ug/L	0.001	61	2	1	34	KED
	Cd	**114**	**-0.001**	ug/L	0.001	162	1	0	221	KED
>	**In**	**115**		ug/L			1886335	1831781	1	Standard
	[redacted]	**107**	**[redacted]**	ug/L	0.000	6	64	105	3	Standard
	Sb	**121**	**0.020**	ug/L	0.001	3	64	616	1	Standard
	Sb	**123**	**0.023**	ug/L	0.002	7	54	495	5	Standard
	[redacted]	**135**	**-[redacted]**	ug/L	0.001	48	46	26	32	Standard
	Ba	**137**	**-0.003**	ug/L	0.001	17	88	49	13	Standard
>	**Tb**	**159**		ug/L			2858511	2850774	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	20	73	224	14	Standard
	[redacted]	**208**	**[redacted]**	ug/L	0.000	64	373	450	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:49:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1219826	0	Standard
	Be	**9**	**24.644**	ug/L	0.525	2	6	150599	1	Standard
	C	**13**		ug/L			33459	41569	0	Standard
	Cl	**37**		ug/L			8651601	8794724	0	Standard
>	**Sc**	**45**		ug/L			1570082	1519483	0	Standard
	V	**51**	**23.984**	ug/L	0.284	1	8248	762684	0	Standard
	V-1	**51**	**24.303**	ug/L	0.345	1	224	763265	1	Standard
	[redacted]	**52**	**[redacted]**	ug/L	0.132	0	24127	682043	0	Standard
	Cr	**53**	**25.828**	ug/L	0.335	1	160	77256	1	Standard
	[redacted]	**55**	**[redacted]**	ug/L	0.146	0	777	1042627	0	Standard
>	**Ge**	**72**		ug/L			104575	102013	1	KED
	[redacted]	**60**	**[redacted]**	ug/L	0.375	1	14	43517	0	KED
	Ni	**62**	**26.031**	ug/L	0.796	3	4	7091	1	KED
	[redacted]	**63**	**[redacted]**	ug/L	0.332	1	101	129671	1	KED
	Cu	**65**	**26.783**	ug/L	0.195	0	59	65403	1	KED
	[redacted]	**66**	**[redacted]**	ug/L	1.017	1	59	59830	1	KED
	Zn	**67**	**81.071**	ug/L	0.480	0	13	9389	1	KED
	[redacted]	**75**	**[redacted]**	ug/L	0.066	0	3	8498	1	KED
	[redacted]	**78**	**[redacted]**	ug/L	0.802	0	11	3101	0	KED
	Y	**89**		ug/L			967000	920416	1	Standard
	Kr	**83**		ug/L			64	67	16	Standard
>	**In-1**	**115**		ug/L			29935	27349	0	KED
	[redacted]	**111**	**[redacted]**	ug/L	0.177	0	2	9905	0	KED
	Cd	**114**	**26.718**	ug/L	0.286	1	1	25968	1	KED
>	**In**	**115**		ug/L			1886335	1827903	1	Standard
	[redacted]	**107**	**[redacted]**	ug/L	1.291	5	64	630151	3	Standard
	Sb	**121**	**0.012**	ug/L	0.001	9	64	396	9	Standard
	Sb	**123**	**0.013**	ug/L	0.002	14	54	308	11	Standard
	[redacted]	**135**	**[redacted]**	ug/L	0.333	1	46	170215	0	Standard
	Ba	**137**	**23.641**	ug/L	0.369	1	88	284059	0	Standard
>	**Tb**	**159**		ug/L			2858511	2881535	0	Standard
	Tl	**205**	**27.476**	ug/L	0.114	0	73	2536013	0	Standard
	[redacted]	**208**	**[redacted]**	ug/L	0.069	0	373	3137912	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:58:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1216213	3	Standard
	Be	**9**	**0.002**	ug/L	0.001	59	6	19	39	Standard
	C	**13**		ug/L			33459	42421	1	Standard
	Cl	**37**		ug/L			8651601	9954452	1	Standard
>	**Sc**	**45**		ug/L			1570082	1535811	1	Standard
	V	**51**	**-0.006**	ug/L	0.015	240	8248	7873	5	Standard
	V-1	**51**	**0.747**	ug/L	0.012	1	224	23914	2	Standard
		52		ug/L	0.016	6	24127	30536	1	Standard
	Cr	**53**	**2.791**	ug/L	0.026	0	160	8580	1	Standard
		55		ug/L	0.011	0	777	102551	0	Standard
>	**Ge**	**72**		ug/L			104575	102124	0	KED
		60		ug/L	0.026	4	14	904	5	KED
	Ni	**62**	**0.490**	ug/L	0.039	7	4	137	7	KED
		63		ug/L	0.011	2	101	2052	2	KED
	Cu	**65**	**0.390**	ug/L	0.015	3	59	1011	3	KED
		66		ug/L	0.128	1	59	7145	1	KED
	Zn	**67**	**10.056**	ug/L	0.667	6	13	1177	6	KED
		75		ug/L	0.004	1	3	97	1	KED
		78		ug/L	0.040	17	11	19	7	KED
	Y	**89**		ug/L			967000	932240	1	Standard
	Kr	**83**		ug/L			64	74	35	Standard
>	**In-1**	**115**		ug/L			29935	27998	1	KED
		111		ug/L	0.030	143	2	10	111	KED
	Cd	**114**	**0.026**	ug/L	0.023	89	1	27	86	KED
>	**In**	**115**		ug/L			1886335	1786140	0	Standard
		107		ug/L	0.000	14	64	146	7	Standard
	Sb	**121**	**0.089**	ug/L	0.002	2	64	2407	2	Standard
	Sb	**123**	**0.096**	ug/L	0.003	2	54	1883	2	Standard
		135		ug/L	0.277	1	46	123813	0	Standard
	Ba	**137**	**17.595**	ug/L	0.216	1	88	206622	0	Standard
>	**Tb**	**159**		ug/L			2858511	2865524	1	Standard
	Tl	**205**	**0.002**	ug/L	0.000	18	73	293	13	Standard
		208		ug/L	0.001	2	373	3268	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:03:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1206727	2	Standard
	Be	**9**	**0.007**	ug/L	0.001	20	6	48	17	Standard
	C	**13**		ug/L			33459	37299	0	Standard
	Cl	**37**		ug/L			8651601	8828565	0	Standard
>	**Sc**	**45**		ug/L			1570082	1492461	1	Standard
	V	**51**	**0.289**	ug/L	0.028	9	8248	16755	4	Standard
	V-1	**51**	**0.479**	ug/L	0.005	1	224	14984	0	Standard
	Cr	**52**	**1.408**	ug/L	0.086	6	24127	59722	2	Standard
	Cr	**53**	**2.056**	ug/L	0.053	2	160	6182	2	Standard
	Mn	**55**	**15.011**	ug/L	0.144	0	777	608054	0	Standard
>	**Ge**	**72**		ug/L			104575	101754	2	KED
	Ni	**60**	**3.145**	ug/L	0.103	3	14	5230	1	KED
	Ni	**62**	**3.038**	ug/L	0.160	5	4	829	6	KED
		63		ug/L	0.070	1	101	22234	1	KED
	Cu	**65**	**4.492**	ug/L	0.139	3	59	10985	2	KED
	Zn	**66**	**321.445**	ug/L	7.377	2	59	225386	0	KED
	Zn	**67**	**298.422**	ug/L	2.042	0	13	34434	1	KED
	As	**75**	**0.357**	ug/L	0.031	8	3	123	6	KED
	Se	**78**	**0.132**	ug/L	0.058	43	11	15	14	KED
	Y	**89**		ug/L			967000	920133	0	Standard
	Kr	**83**		ug/L			64	76	38	Standard
>	**In-1**	**115**		ug/L			29935	27542	1	KED
	Cd	**111**	**0.150**	ug/L	0.032	21	2	59	19	KED
	Cd	**114**	**0.182**	ug/L	0.027	14	1	179	13	KED
>	**In**	**115**		ug/L			1886335	1793672	1	Standard
	Ag	**107**	**0.010**	ug/L	0.001	6	64	316	5	Standard
	Sb	**121**	**0.085**	ug/L	0.006	6	64	2320	5	Standard
	Sb	**123**	**0.086**	ug/L	0.002	2	54	1694	1	Standard
	Ba	**135**	**1.521**	ug/L	0.014	0	46	10741	0	Standard
	Ba	**137**	**1.474**	ug/L	0.024	1	88	17464	2	Standard
>	**Tb**	**159**		ug/L			2858511	2849724	1	Standard
	Tl	**205**	**0.002**	ug/L	0.000	26	73	241	19	Standard
	Pb	**208**	**2.292**	ug/L	0.022	0	373	282758	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:08:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1193634	1	Standard
	Be	**9**	**0.001**	ug/L	0.001	91	6	15	50	Standard
	C	**13**		ug/L			33459	36463	1	Standard
	Cl	**37**		ug/L			8651601	9806905	0	Standard
>	**Sc**	**45**		ug/L			1570082	1528924	1	Standard
	V	**51**	**0.186**	ug/L	0.016	8	8248	13922	5	Standard
	V-1	**51**	**1.136**	ug/L	0.002	0	224	36118	1	Standard
	Cr	**52**	**1.195**	ug/L	0.029	2	24127	55479	0	Standard
	Cr	**53**	**4.399**	ug/L	0.083	1	160	13367	0	Standard
	Mn	**55**	**3.943**	ug/L	0.061	1	777	164162	0	Standard
>	**Ge**	**72**		ug/L			104575	101241	0	KED
	Ni	**60**	**1.248**	ug/L	0.020	1	14	2075	1	KED
	Ni	**62**	**1.281**	ug/L	0.073	5	4	350	5	KED
	[redacted]	**63**	[redacted]	ug/L	0.041	2	101	7042	2	KED
	Cu	**65**	**1.451**	ug/L	0.022	1	59	3570	1	KED
	Zn	**66**	**128.722**	ug/L	0.383	0	59	89865	0	KED
	[redacted]	[redacted]	[redacted]	ug/L	2.230	1	13	13863	1	KED
	As	**75**	**0.266**	ug/L	0.015	5	3	92	5	KED
	Se	**78**	**0.211**	ug/L	0.035	16	11	18	7	KED
	Y	**89**		ug/L			967000	912629	2	Standard
	Kr	**83**		ug/L			64	64	16	Standard
>	**In-1**	**115**		ug/L			29935	27087	1	KED
	Cd	**111**	**0.075**	ug/L	0.015	19	2	30	18	KED
	Cd	**114**	**0.078**	ug/L	0.004	5	1	75	6	KED
>	**In**	**115**		ug/L			1886335	1789834	0	Standard
	Ag	**107**	**0.004**	ug/L	0.000	8	64	167	4	Standard
	Sb	**121**	**0.094**	ug/L	0.002	2	64	2557	1	Standard
	Sb	**123**	**0.097**	ug/L	0.002	2	54	1918	2	Standard
	Ba	**135**	**1.632**	ug/L	0.028	1	46	11500	1	Standard
	Ba	**137**	**1.617**	ug/L	0.022	1	88	19110	1	Standard
>	**Tb**	**159**		ug/L			2858511	2847339	0	Standard
	Tl	**205**	**0.003**	ug/L	0.000	8	73	364	6	Standard
	Pb	**208**	**0.271**	ug/L	0.001	0	373	33729	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:13:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1192188	3	Standard
	Be	**9**	**0.003**	ug/L	0.002	49	6	26	35	Standard
	C	**13**		ug/L			33459	37792	1	Standard
	Cl	**37**		ug/L			8651601	8837749	0	Standard
>	**Sc**	**45**		ug/L			1570082	1474923	1	Standard
	V	**51**	**0.146**	ug/L	0.010	6	8248	12194	2	Standard
	V-1	**51**	**0.331**	ug/L	0.005	1	224	10288	0	Standard
	Cr	**52**	**0.631**	ug/L	0.012	1	24127	38969	1	Standard
	Cr	**53**	**1.257**	ug/L	0.029	2	160	3794	1	Standard
	Mn	**55**	**8.752**	ug/L	0.020	0	777	350706	1	Standard
>	**Ge**	**72**		ug/L			104575	99589	0	KED
	Ni	**60**	**1.537**	ug/L	0.043	2	14	2510	3	KED
	Ni	**62**	**1.523**	ug/L	0.139	9	4	408	8	KED
	[redacted]	**63**	[redacted]	ug/L	0.018	1	101	7971	1	KED
	Cu	**65**	**1.608**	ug/L	0.020	1	59	3887	1	KED
	Zn	**66**	**149.832**	ug/L	0.257	0	59	102884	0	KED
	[redacted]	[redacted]	[redacted]	ug/L	1.915	1	13	15843	0	KED
	As	**75**	**0.136**	ug/L	0.009	6	3	47	5	KED
	Se	**78**	**0.149**	ug/L	0.069	46	11	16	15	KED
	Y	**89**		ug/L			967000	916142	0	Standard
	Kr	**83**		ug/L			64	67	16	Standard
>	**In-1**	**115**		ug/L			29935	27092	1	KED
	Cd	**111**	**0.048**	ug/L	0.013	26	2	20	24	KED
	Cd	**114**	**0.042**	ug/L	0.017	40	1	41	39	KED
>	**In**	**115**		ug/L			1886335	1779119	1	Standard
	Ag	**107**	**0.002**	ug/L	0.000	19	64	104	9	Standard
	Sb	**121**	**0.062**	ug/L	0.003	4	64	1692	2	Standard
	Sb	**123**	**0.066**	ug/L	0.004	5	54	1313	3	Standard
	Ba	**135**	**1.160**	ug/L	0.018	1	46	8137	1	Standard
	Ba	**137**	**1.157**	ug/L	0.020	1	88	13612	0	Standard
>	**Tb**	**159**		ug/L			2858511	2797318	1	Standard
	Tl	**205**	**0.001**	ug/L	0.000	18	73	191	10	Standard
	Pb	**208**	**0.561**	ug/L	0.011	2	373	68249	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:17:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1126761	10	Standard
	Be	**9**	**0.003**	ug/L	0.001	53	6	20	31	Standard
	C	**13**		ug/L			33459	36782	0	Standard
	Cl	**37**		ug/L			8651601	8786495	3	Standard
>	**Sc**	**45**		ug/L			1570082	1387394	13	Standard
	V	**51**	**0.085**	ug/L	0.039	45	8248	9640	2	Standard
	V-1	**51**	**0.289**	ug/L	0.037	12	224	8389	1	Standard
	Cr	**52**	**0.467**	ug/L	0.155	33	24127	32354	2	Standard
	Cr	**53**	**1.155**	ug/L	0.150	13	160	3255	2	Standard
	Mn	**55**	**2.756**	ug/L	0.354	12	777	103191	1	Standard
>	**Ge**	**72**		ug/L			104575	100727	1	KED
	Ni	**60**	**0.455**	ug/L	0.021	4	14	761	4	KED
	Ni	**62**	**0.449**	ug/L	0.091	20	4	125	20	KED
		63		ug/L	0.015	1	101	4740	0	KED
	Cu	**65**	**0.933**	ug/L	0.007	0	59	2304	1	KED
		66		ug/L	0.801	1	59	29984	1	KED
	Zn	**67**	**40.211**	ug/L	2.141	5	13	4603	4	KED
	As	**75**	**0.127**	ug/L	0.024	18	3	45	16	KED
	Se	**78**	**0.175**	ug/L	0.073	41	11	17	15	KED
	Y	**89**		ug/L			967000	859294	12	Standard
	Kr	**83**		ug/L			64	84	27	Standard
>	**In-1**	**115**		ug/L			29935	26291	1	KED
	Cd	**111**	**0.010**	ug/L	0.005	53	2	5	33	KED
	Cd	**114**	**0.013**	ug/L	0.000	1	1	13	0	KED
>	**In**	**115**		ug/L			1886335	1659828	11	Standard
	Ag	**107**	**0.001**	ug/L	0.001	68	64	85	23	Standard
	Sb	**121**	**0.051**	ug/L	0.003	6	64	1305	6	Standard
	Sb	**123**	**0.052**	ug/L	0.001	1	54	967	10	Standard
	Ba	**135**	**1.780**	ug/L	0.240	13	46	11503	1	Standard
	Ba	**137**	**1.801**	ug/L	0.228	12	88	19535	0	Standard
>	**Tb**	**159**		ug/L			2858511	2667842	11	Standard
	Tl	**205**	**0.001**	ug/L	0.000	26	73	146	5	Standard
	Pb	**208**	**0.101**	ug/L	0.010	10	373	11957	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:23:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1171756	3	Standard
	Be	**9**	**0.001**	ug/L	0.001	122	6	12	50	Standard
	C	**13**		ug/L			33459	117557	0	Standard
	Cl	**37**		ug/L			8651601	8842011	0	Standard
>	**Sc**	**45**		ug/L			1570082	1494334	0	Standard
	V	**51**	**-0.224**	ug/L	0.200	89	8248	904	683	Standard
	V-1	**51**	**0.136**	ug/L	0.005	3	224	4408	3	Standard
		52		ug/L	0.353	0	24127	1279972	0	Standard
	Cr	**53**	**49.594**	ug/L	0.751	1	160	145757	1	Standard
		55		ug/L	0.200	0	777	1071038	0	Standard
>	**Ge**	**72**		ug/L			104575	96200	1	KED
		60		ug/L	0.035	1	14	4634	0	KED
	Ni	**62**	**2.899**	ug/L	0.137	4	4	748	5	KED
		63		ug/L	0.052	3	101	7057	2	KED
	Cu	**65**	**1.562**	ug/L	0.052	3	59	3649	3	KED
		66		ug/L	1.391	2	59	40896	1	KED
	Zn	**67**	**57.356**	ug/L	1.530	2	13	6266	1	KED
	As	**75**	**0.151**	ug/L	0.018	11	3	51	11	KED
	Se	**78**	**0.169**	ug/L	0.111	65	11	16	23	KED
	Y	**89**		ug/L			967000	920274	2	Standard
	Kr	**83**		ug/L			64	70	26	Standard
>	**In-1**	**115**		ug/L			29935	26025	0	KED
		111		ug/L	0.074	8	2	330	7	KED
	Cd	**114**	**0.961**	ug/L	0.054	5	1	889	5	KED
>	**In**	**115**		ug/L			1886335	1746253	1	Standard
	Ag	**107**	**0.027**	ug/L	0.002	7	64	718	6	Standard
	Sb	**121**	**0.156**	ug/L	0.008	5	64	4074	5	Standard
	Sb	**123**	**0.166**	ug/L	0.003	1	54	3144	2	Standard
	Ba	**135**	**4.854**	ug/L	0.058	1	46	33282	0	Standard
	Ba	**137**	**4.844**	ug/L	0.045	0	88	55673	0	Standard
>	**Tb**	**159**		ug/L			2858511	2860745	0	Standard
	Tl	**205**	**0.000**	ug/L	0.000	43	73	111	14	Standard
		208		ug/L	0.002	0	373	27046	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:29:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1123976	1	Standard
	Be	**9**	**0.001**	ug/L	0.001	56	6	13	31	Standard
	C	**13**		ug/L			33459	115373	1	Standard
	Cl	**37**		ug/L			8651601	8782645	0	Standard
>	**Sc**	**45**		ug/L			1570082	1506013	0	Standard
	V	**51**	**-0.016**	ug/L	0.024	145	8248	7400	10	Standard
	V-1	**51**	**0.095**	ug/L	0.001	1	224	3171	1	Standard
		52		ug/L	0.182	1	24127	298687	1	Standard
	Cr	**53**	**10.897**	ug/L	0.111	1	160	32399	1	Standard
	Mn	**55**	**79.341**	ug/L	0.865	1	777	3240234	1	Standard
>	**Ge**	**72**		ug/L			104575	92214	0	KED
		60		ug/L	0.077	2	14	3911	3	KED
	Ni	**62**	**2.502**	ug/L	0.086	3	4	619	2	KED
		63		ug/L	0.037	7	101	2393	6	KED
	Cu	**65**	**0.498**	ug/L	0.026	5	59	1149	4	KED
		66		ug/L	0.101	1	59	5655	0	KED
	Zn	**67**	**8.447**	ug/L	0.267	3	13	895	2	KED
	As	**75**	**0.118**	ug/L	0.020	17	3	38	15	KED
	Se	**78**	**0.124**	ug/L	0.091	73	11	13	21	KED
	Y	**89**		ug/L			967000	918307	0	Standard
	Kr	**83**		ug/L			64	78	15	Standard
>	**In-1**	**115**		ug/L			29935	25654	1	KED
		111		ug/L	0.017	13	2	45	13	KED
	Cd	**114**	**0.119**	ug/L	0.004	3	1	109	4	KED
>	**In**	**115**		ug/L			1886335	1737808	0	Standard
	Ag	**107**	**0.007**	ug/L	0.001	16	64	227	12	Standard
	Sb	**121**	**0.126**	ug/L	0.002	1	64	3305	1	Standard
	Sb	**123**	**0.135**	ug/L	0.004	2	54	2553	3	Standard
	Ba	**135**	**5.726**	ug/L	0.042	0	46	39068	1	Standard
	Ba	**137**	**5.686**	ug/L	0.046	0	88	65027	0	Standard
>	**Tb**	**159**		ug/L			2858511	2818863	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	15	73	123	6	Standard
		208		ug/L	0.001	1	373	6436	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:34:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1227418	1	Standard
	Be	**9**	**0.003**	ug/L	0.001	37	6	24	25	Standard
	C	**13**		ug/L			33459	36788	0	Standard
	Cl	**37**		ug/L			8651601	9077886	0	Standard
>	**Sc**	**45**		ug/L			1570082	1514969	0	Standard
	V	**51**	**0.056**	ug/L	0.009	16	8248	9721	3	Standard
	V-1	**51**	**0.114**	ug/L	0.002	1	224	3794	1	Standard
	Cr	**52**	**0.300**	ug/L	0.022	7	24127	31241	1	Standard
	Cr	**53**	**0.497**	ug/L	0.013	2	160	1634	1	Standard
	Mn	**55**	**3.800**	ug/L	0.057	1	777	156816	1	Standard
>	**Ge**	**72**		ug/L			104575	99282	0	KED
	Ni	**60**	**0.806**	ug/L	0.046	5	14	1319	5	KED
	Ni	**62**	**0.713**	ug/L	0.077	10	4	193	10	KED
	Cu	**63**	**1.146**	ug/L	0.042	3	101	5493	3	KED
	Cu	**65**	**1.130**	ug/L	0.035	3	59	2740	3	KED
		66		ug/L	1.115	1	59	55496	0	KED
	Zn	**67**	**75.360**	ug/L	2.718	3	13	8495	3	KED
	As	**75**	**0.085**	ug/L	0.010	11	3	31	10	KED
	Se	**78**	**0.021**	ug/L	0.034	158	11	11	11	KED
	Y	**89**		ug/L			967000	931819	2	Standard
	Kr	**83**		ug/L			64	72	11	Standard
>	**In-1**	**115**		ug/L			29935	27218	1	KED
	Cd	**111**	**0.062**	ug/L	0.008	12	2	25	12	KED
	Cd	**114**	**0.048**	ug/L	0.010	21	1	47	20	KED
>	**In**	**115**		ug/L			1886335	1807166	1	Standard
	Ag	**107**	**0.003**	ug/L	0.001	28	64	125	13	Standard
	Sb	**121**	**0.024**	ug/L	0.002	8	64	689	8	Standard
	Sb	**123**	**0.022**	ug/L	0.002	9	54	486	9	Standard
	Ba	**135**	**0.354**	ug/L	0.004	1	46	2553	2	Standard
	Ba	**137**	**0.363**	ug/L	0.017	4	88	4393	3	Standard
>	**Tb**	**159**		ug/L			2858511	2839468	0	Standard
	Tl	**205**	**0.000**	ug/L	0.000	11	73	107	2	Standard
	Pb	**208**	**0.582**	ug/L	0.006	1	373	71787	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:40:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1171964	1	Standard
	Be	**9**	**48.202**	ug/L	0.790	1	6	283014	1	Standard
	C	**13**		ug/L			33459	31555	0	Standard
	Cl	**37**		ug/L			8651601	9104718	1	Standard
>	**Sc**	**45**		ug/L			1570082	1488979	0	Standard
	V	**51**	**46.593**	ug/L	0.474	1	8248	1444655	1	Standard
	V-1	**51**	**47.172**	ug/L	0.348	0	224	1451619	1	Standard
	Cr	**52**	**47.523**	ug/L	0.680	1	24127	1262559	2	Standard
	Cr	**53**	**49.478**	ug/L	0.393	0	160	144896	1	Standard
	Mn	**55**	**49.922**	ug/L	1.865	3	777	2016235	4	Standard
>	**Ge**	**72**		ug/L			104575	98368	1	KED
	Ni	**60**	**49.698**	ug/L	0.386	0	14	79741	0	KED
	Ni	**62**	**49.803**	ug/L	0.436	0	4	13080	0	KED
	Cu	**63**	**50.270**	ug/L	0.466	0	101	234575	0	KED
	Cu	**65**	**49.774**	ug/L	0.474	0	59	117148	0	KED
	Zn	**66**	**50.756**	ug/L	0.263	0	59	34463	1	KED
	Zn	**67**	**51.016**	ug/L	1.443	2	13	5701	2	KED
	As	**75**	**49.185**	ug/L	0.381	0	3	16031	0	KED
	Se	**78**	**50.377**	ug/L	1.209	2	11	1837	1	KED
	Y	**89**		ug/L			967000	928011	0	Standard
	Kr	**83**		ug/L			64	73	21	Standard
>	**In-1**	**115**		ug/L			29935	26594	1	KED
	Cd	**111**	**51.125**	ug/L	0.602	1	2	18694	0	KED
	Cd	**114**	**51.410**	ug/L	0.585	1	1	48584	0	KED
>	**In**	**115**		ug/L			1886335	1771723	0	Standard
	Ag	**107**	**49.230**	ug/L	0.429	0	64	1211889	1	Standard
	Sb	**121**	**46.508**	ug/L	0.500	1	64	1217831	1	Standard
	Sb	**123**	**48.591**	ug/L	0.166	0	54	921370	0	Standard
	Ba	**135**	**46.907**	ug/L	0.517	1	46	325956	0	Standard
	Ba	**137**	**46.973**	ug/L	0.619	1	88	547067	1	Standard
>	**Tb**	**159**		ug/L			2858511	2894437	0	Standard
	Tl	**205**	**50.987**	ug/L	0.615	1	73	4726982	1	Standard
	Pb	**208**	**49.284**	ug/L	0.131	0	373	6167422	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:48:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1194980	0	Standard
	Be	**9**	**0.004**	ug/L	0.001	35	6	31	27	Standard
	C	**13**		ug/L			33459	32681	0	Standard
	Cl	**37**		ug/L			8651601	8897585	0	Standard
>	**Sc**	**45**		ug/L			1570082	1471889	0	Standard
	V	**51**	**-0.010**	ug/L	0.003	27	8248	7418	0	Standard
	V-1	**51**	**0.012**	ug/L	0.001	11	224	568	6	Standard
	Cr	**52**	**-0.034**	ug/L	0.011	32	24127	21729	0	Standard
	Cr	**53**	**0.040**	ug/L	0.006	15	160	264	6	Standard
	Mn	**55**	**0.009**	ug/L	0.001	11	777	1078	3	Standard
>	**Ge**	**72**		ug/L			104575	101275	0	KED
	Ni	**60**	**-0.000**	ug/L	0.001	1321	14	13	15	KED
	Ni	**62**	**0.001**	ug/L	0.004	785	4	4	24	KED
	Cu	**63**	**0.003**	ug/L	0.002	85	101	112	11	KED
	Cu	**65**	**0.000**	ug/L	0.005	2001	59	58	21	KED
	Zn	**66**	**0.057**	ug/L	0.021	37	59	97	14	KED
	Zn	**67**	**0.009**	ug/L	0.039	408	13	14	30	KED
	As	**75**	**0.005**	ug/L	0.010	174	3	4	65	KED
	Se	**78**	**0.134**	ug/L	0.030	22	11	15	7	KED
	Y	**89**		ug/L			967000	925931	1	Standard
	Kr	**83**		ug/L			64	62	15	Standard
>	**In-1**	**115**		ug/L			29935	27941	2	KED
	Cd	**111**	**0.000**	ug/L	0.005	1127	2	2	78	KED
	Cd	**114**	**0.001**	ug/L	0.001	84	1	2	49	KED
>	**In**	**115**		ug/L			1886335	1802904	0	Standard
	Ag	**107**	**0.005**	ug/L	0.001	17	64	197	12	Standard
	Sb	**121**	**0.042**	ug/L	0.002	4	64	1171	4	Standard
	Sb	**123**	**0.046**	ug/L	0.000	0	54	945	0	Standard
	Ba	**135**	**0.012**	ug/L	0.001	5	46	126	3	Standard
	Ba	**137**	**0.011**	ug/L	0.002	16	88	211	9	Standard
>	**Tb**	**159**		ug/L			2858511	2839972	0	Standard
	Tl	**205**	**0.004**	ug/L	0.001	20	73	406	16	Standard
	Pb	**208**	**0.004**	ug/L	0.001	21	373	853	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:54:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1165663	2	Standard
	Be	**9**	**0.002**	ug/L	0.002	86	6	17	50	Standard
	C	**13**		ug/L			33459	45217	1	Standard
	Cl	**37**		ug/L			8651601	8842231	0	Standard
>	**Sc**	**45**		ug/L			1570082	1485432	1	Standard
	V	**51**	**-0.001**	ug/L	0.004	623	8248	7781	1	Standard
	V-1	**51**	**0.019**	ug/L	0.001	3	224	792	2	Standard
	Cr	**52**	**0.007**	ug/L	0.015	218	24127	22998	1	Standard
	Cr	**53**	**0.072**	ug/L	0.003	4	160	363	3	Standard
	Mn	**55**	**0.019**	ug/L	0.001	6	777	1509	3	Standard
>	**Ge**	**72**		ug/L			104575	101133	0	KED
	Ni	**60**	**0.002**	ug/L	0.005	274	14	17	48	KED
	Ni	**62**	**0.005**	ug/L	0.000	1	4	5	0	KED
	Cu	**63**	**0.005**	ug/L	0.003	52	101	123	10	KED
	Cu	**65**	**-0.001**	ug/L	0.005	681	59	55	22	KED
	Zn	**66**	**0.202**	ug/L	0.020	10	59	198	7	KED
	Zn	**67**	**0.220**	ug/L	0.011	5	13	38	2	KED
	As	**75**	**0.007**	ug/L	0.002	32	3	5	13	KED
	Se	**78**	**0.058**	ug/L	0.042	72	11	12	12	KED
	Y	**89**		ug/L			967000	926226	1	Standard
	Kr	**83**		ug/L			64	62	25	Standard
>	**In-1**	**115**		ug/L			29935	27485	1	KED
	Cd	**111**	**0.003**	ug/L	0.001	48	2	3	15	KED
	Cd	**114**	**0.005**	ug/L	0.007	144	1	5	118	KED
>	**In**	**115**		ug/L			1886335	1809784	0	Standard
		107		ug/L	0.001	49	64	102	19	Standard
	Sb	**121**	**0.015**	ug/L	0.001	8	64	461	6	Standard
	Sb	**123**	**0.014**	ug/L	0.001	3	54	331	2	Standard
	Ba	**135**	**-0.000**	ug/L	0.000	92	46	41	7	Standard
	Ba	**137**	**-0.002**	ug/L	0.001	46	88	60	17	Standard
>	**Tb**	**159**		ug/L			2858511	2837284	1	Standard
	Tl	**205**	**0.002**	ug/L	0.000	9	73	215	6	Standard
	Pb	**208**	**0.003**	ug/L	0.000	9	373	685	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:58:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1140920	2	Standard
	Be	**9**	**25.493**	ug/L	0.178	0	6	145711	1	Standard
	C	**13**		ug/L			33459	45661	1	Standard
	Cl	**37**		ug/L			8651601	8864435	0	Standard
>	**Sc**	**45**		ug/L			1570082	1474724	1	Standard
	V	**51**	**24.323**	ug/L	0.167	0	8248	750602	1	Standard
	V-1	**51**	**24.610**	ug/L	0.183	0	224	750124	1	Standard
	Cr	**52**	**24.862**	ug/L	0.525	2	24127	664850	1	Standard
	Cr	**53**	**25.830**	ug/L	0.612	2	160	74975	1	Standard
	Mn	**55**	**25.720**	ug/L	0.552	2	777	1028792	1	Standard
>	**Ge**	**72**		ug/L			104575	98927	0	KED
	Ni	**60**	**26.490**	ug/L	0.240	0	14	42752	0	KED
	Ni	**62**	**26.114**	ug/L	0.314	1	4	6900	0	KED
	Cu	**63**	**26.714**	ug/L	0.295	1	101	125416	1	KED
	Cu	**65**	**26.435**	ug/L	0.153	0	59	62602	0	KED
	Zn	**66**	**84.794**	ug/L	1.596	1	59	57860	1	KED
	Zn	**67**	**81.446**	ug/L	1.454	1	13	9147	1	KED
	As	**75**	**25.099**	ug/L	0.287	1	3	8229	0	KED
	Se	**78**	**81.164**	ug/L	0.353	0	11	2971	0	KED
	Y	**89**		ug/L			967000	910288	1	Standard
	Kr	**83**		ug/L			64	72	2	Standard
>	**In-1**	**115**		ug/L			29935	27117	0	KED
	Cd	**111**	**26.225**	ug/L	0.651	2	2	9779	2	KED
	Cd	**114**	**26.016**	ug/L	0.454	1	1	25070	1	KED
>	**In**	**115**		ug/L			1886335	1763589	1	Standard
		107		ug/L	0.299	1	64	617643	2	Standard
	Sb	**121**	**24.301**	ug/L	0.426	1	64	633340	0	Standard
	Sb	**123**	**25.491**	ug/L	0.453	1	54	481086	0	Standard
	Ba	**135**	**24.020**	ug/L	0.468	1	46	166142	0	Standard
	Ba	**137**	**23.984**	ug/L	0.377	1	88	278053	0	Standard
>	**Tb**	**159**		ug/L			2858511	2816461	0	Standard
	Tl	**205**	**27.756**	ug/L	0.416	1	73	2503783	0	Standard
	Pb	**208**	**25.257**	ug/L	0.314	1	373	3075413	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:03:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1215082	3	Standard
	Be	**9**	**0.003**	ug/L	0.002	56	6	27	39	Standard
	C	**13**		ug/L			33459	45289	1	Standard
	Cl	**37**		ug/L			8651601	10086334	1	Standard
>	**Sc**	**45**		ug/L			1570082	1508157	0	Standard
	V	**51**	**-0.022**	ug/L	0.007	31	8248	7250	2	Standard
	V-1	**51**	**0.786**	ug/L	0.024	3	224	24724	2	Standard
		52		ug/L	0.003	1	24127	29271	0	Standard
	Cr	**53**	**2.950**	ug/L	0.088	2	160	8895	2	Standard
		55		ug/L	0.026	1	777	103305	0	Standard
>	**Ge**	**72**		ug/L			104575	97547	0	KED
		60		ug/L	0.042	7	14	866	7	KED
	Ni	**62**	**0.565**	ug/L	0.047	8	4	151	7	KED
		63		ug/L	0.027	5	101	2145	5	KED
	Cu	**65**	**0.440**	ug/L	0.018	4	59	1082	3	KED
		66		ug/L	0.120	1	59	6993	0	KED
	Zn	**67**	**10.901**	ug/L	0.283	2	13	1218	2	KED
		75		ug/L	0.016	5	3	96	5	KED
		78		ug/L	0.106	59	11	16	22	KED
	Y	**89**		ug/L			967000	917027	2	Standard
	Kr	**83**		ug/L			64	70	10	Standard
>	**In-1**	**115**		ug/L			29935	26624	0	KED
		111		ug/L	0.005	106	2	3	43	KED
	Cd	**114**	**0.007**	ug/L	0.000	1	1	7	0	KED
>	**In**	**115**		ug/L			1886335	1748693	1	Standard
		107		ug/L	0.002	35	64	166	23	Standard
	Sb	**121**	**0.091**	ug/L	0.003	3	64	2409	3	Standard
	Sb	**123**	**0.096**	ug/L	0.006	5	54	1845	4	Standard
		135		ug/L	0.156	0	46	122507	0	Standard
	Ba	**137**	**17.628**	ug/L	0.204	1	88	202671	0	Standard
>	**Tb**	**159**		ug/L			2858511	2848187	0	Standard
	Tl	**205**	**0.003**	ug/L	0.000	13	73	370	11	Standard
		208		ug/L	0.000	0	373	3483	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:08:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1203638	2	Standard
	Be	**9**	**24.766**	ug/L	0.181	0	6	149353	2	Standard
	C	**13**		ug/L			33459	46532	0	Standard
	Cl	**37**		ug/L			8651601	10075034	0	Standard
>	**Sc**	**45**		ug/L			1570082	1504396	1	Standard
	V	**51**	**23.892**	ug/L	0.293	1	8248	752186	0	Standard
	V-1	**51**	**25.124**	ug/L	0.262	1	224	781147	0	Standard
	[redacted]	**52**	**[redacted]**	ug/L	0.357	1	24127	657831	0	Standard
	Cr	**53**	**28.235**	ug/L	0.336	1	160	83596	0	Standard
	[redacted]	**55**	**[redacted]**	ug/L	0.519	1	777	1109861	0	Standard
>	**Ge**	**72**		ug/L			104575	98570	1	KED
	[redacted]	**60**	**[redacted]**	ug/L	0.297	1	14	41647	0	KED
	Ni	**62**	**26.247**	ug/L	0.050	0	4	6910	1	KED
	[redacted]	**63**	**[redacted]**	ug/L	0.314	1	101	122623	0	KED
	Cu	**65**	**25.851**	ug/L	0.185	0	59	60997	0	KED
	[redacted]	**66**	**[redacted]**	ug/L	0.900	1	59	60357	0	KED
	Zn	**67**	**85.218**	ug/L	0.753	0	13	9535	0	KED
	[redacted]	**75**	**[redacted]**	ug/L	0.117	0	3	8159	0	KED
	[redacted]	**78**	**[redacted]**	ug/L	0.894	1	11	2786	0	KED
	Y	**89**		ug/L			967000	907461	0	Standard
	Kr	**83**		ug/L			64	59	17	Standard
>	**In-1**	**115**		ug/L			29935	26421	1	KED
	[redacted]	**111**	**[redacted]**	ug/L	0.409	1	2	9374	0	KED
	Cd	**114**	**25.660**	ug/L	0.503	1	1	24091	1	KED
>	**In**	**115**		ug/L			1886335	1759103	1	Standard
	[redacted]	**107**	**[redacted]**	ug/L	0.508	2	64	593694	0	Standard
	Sb	**121**	**0.087**	ug/L	0.002	2	64	2320	1	Standard
	Sb	**123**	**0.090**	ug/L	0.004	4	54	1753	3	Standard
	[redacted]	**135**	**[redacted]**	ug/L	0.473	1	46	286565	1	Standard
	Ba	**137**	**40.782**	ug/L	0.635	1	88	471554	1	Standard
>	**Tb**	**159**		ug/L			2858511	2821324	1	Standard
	Tl	**205**	**26.957**	ug/L	0.180	0	73	2435922	1	Standard
	[redacted]	**208**	**[redacted]**	ug/L	0.337	1	373	2994146	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:13:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1212047	4	Standard
	Be	**9**	**24.949**	ug/L	0.911	3	6	151344	0	Standard
	C	**13**		ug/L			33459	47301	0	Standard
	Cl	**37**		ug/L			8651601	10168961	0	Standard
>	**Sc**	**45**		ug/L			1570082	1507494	1	Standard
	V	**51**	**24.117**	ug/L	0.356	1	8248	760778	0	Standard
	V-1	**51**	**25.364**	ug/L	0.342	1	224	790221	0	Standard
	[redacted]	**52**	**[redacted]**	ug/L	0.406	1	24127	669163	1	Standard
	Cr	**53**	**28.661**	ug/L	0.533	1	160	85031	0	Standard
	[redacted]	**55**	**[redacted]**	ug/L	0.429	1	777	1117048	0	Standard
>	**Ge**	**72**		ug/L			104575	98396	1	KED
	[redacted]	**60**	**[redacted]**	ug/L	0.781	2	14	41803	1	KED
	Ni	**62**	**25.742**	ug/L	0.333	1	4	6765	1	KED
	[redacted]	**63**	**[redacted]**	ug/L	0.170	0	101	124086	0	KED
	Cu	**65**	**26.381**	ug/L	0.267	1	59	62134	1	KED
	[redacted]	**66**	**[redacted]**	ug/L	0.682	0	59	60217	0	KED
	Zn	**67**	**87.087**	ug/L	2.433	2	13	9725	1	KED
	[redacted]	**75**	**[redacted]**	ug/L	0.440	1	3	8352	0	KED
	[redacted]	**78**	**[redacted]**	ug/L	1.348	1	11	2846	0	KED
	Y	**89**		ug/L			967000	900137	1	Standard
	Kr	**83**		ug/L			64	75	11	Standard
>	**In-1**	**115**		ug/L			29935	25940	0	KED
	[redacted]	**111**	**[redacted]**	ug/L	0.161	0	2	9148	0	KED
	Cd	**114**	**25.721**	ug/L	0.362	1	1	23710	0	KED
>	**In**	**115**		ug/L			1886335	1754403	1	Standard
	[redacted]	**107**	**[redacted]**	ug/L	0.056	0	64	588823	0	Standard
	Sb	**121**	**0.086**	ug/L	0.001	0	64	2283	1	Standard
	Sb	**123**	**0.089**	ug/L	0.004	4	54	1719	4	Standard
	[redacted]	**135**	**[redacted]**	ug/L	0.627	1	46	285601	0	Standard
	Ba	**137**	**41.283**	ug/L	0.766	1	88	476059	1	Standard
>	**Tb**	**159**		ug/L			2858511	2829649	1	Standard
	Tl	**205**	**27.143**	ug/L	0.317	1	73	2459841	0	Standard
	[redacted]	**208**	**[redacted]**	ug/L	0.289	1	373	3042967	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:20:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1296177	3	Standard
	Be	**9**	**0.001**	ug/L	0.001	153	6	11	50	Standard
	C	**13**		ug/L			33459	817017	0	Standard
	Cl	**37**		ug/L			8651601	7782984	0	Standard
>	**Sc**	**45**		ug/L			1570082	1339197	1	Standard
	V	**51**	**0.825**	ug/L	0.002	0	8248	29929	1	Standard
	V-1	**51**	**0.312**	ug/L	0.003	1	224	8816	1	Standard
	Cr	**52**	**5.247**	ug/L	0.020	0	24127	143677	1	Standard
				ug/L	0.020	0	160	9483	1	Standard
	Mn	**55**	**78.358**	ug/L	0.693	0	777	2845383	1	Standard
>	**Ge**	**72**		ug/L			104575	75480	0	KED
	Ni	**60**	**20.797**	ug/L	0.070	0	14	25612	0	KED
				ug/L	0.221	1	4	4065	0	KED
		63		ug/L	0.012	1	101	2516	1	KED
	Cu	**65**	**0.669**	ug/L	0.026	3	59	1251	3	KED
		66		ug/L	0.223	2	59	4673	2	KED
	Zn	**67**	**9.187**	ug/L	0.112	1	13	796	1	KED
	As	**75**	**0.379**	ug/L	0.034	9	3	96	8	KED
	Se	**78**	**0.198**	ug/L	0.125	63	11	13	25	KED
	Y	**89**		ug/L			967000	843972	1	Standard
	Kr	**83**		ug/L			64	80	10	Standard
>	**In-1**	**115**		ug/L			29935	22311	0	KED
		111		ug/L	0.020	73	2	10	60	KED
	Cd	**114**	**0.017**	ug/L	0.007	42	1	14	40	KED
>	**In**	**115**		ug/L			1886335	1507964	1	Standard
	Ag	**107**	**0.006**	ug/L	0.001	11	64	186	7	Standard
	Sb	**121**	**0.225**	ug/L	0.002	0	64	5065	1	Standard
	Sb	**123**	**0.237**	ug/L	0.002	1	54	3862	1	Standard
	Ba	**135**	**22.664**	ug/L	0.124	0	46	134063	0	Standard
	Ba	**137**	**22.466**	ug/L	0.133	0	88	222726	0	Standard
>	**Tb**	**159**		ug/L			2858511	2571815	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	11	73	125	4	Standard
		208		ug/L	0.001	1	373	12071	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:26:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1095527	0	Standard
	Be	**9**	**0.006**	ug/L	0.003	55	6	39	46	Standard
	C	**13**		ug/L			33459	188125	0	Standard
	Cl	**37**		ug/L			8651601	7487039	1	Standard
>	**Sc**	**45**		ug/L			1570082	1520543	0	Standard
	V	**51**	**0.272**	ug/L	0.052	19	8248	16557	10	Standard
	V-1	**51**	**0.330**	ug/L	0.003	1	224	10585	0	Standard
	Cr	**52**	**9.122**	ug/L	0.113	1	24127	266351	1	Standard
	Cr	**53**	**9.384**	ug/L	0.067	0	160	28187	0	Standard
	Mn	**55**	**283.948**	ug/L	0.774	0	777	11706015	1	Standard
>	**Ge**	**72**		ug/L			104575	87621	0	KED
	Ni	**60**	**1.422**	ug/L	0.041	2	14	2044	2	KED
	Ni	**62**	**1.382**	ug/L	0.050	3	4	326	3	KED
	Cu	**63**	**0.050**	ug/L	0.006	11	101	292	9	KED
	Cu	**65**	**0.045**	ug/L	0.007	14	59	145	10	KED
	Zn	**66**	**1.638**	ug/L	0.090	5	59	1039	5	KED
	Zn	**67**	**1.416**	ug/L	0.140	9	13	152	9	KED
	As	**75**	**0.013**	ug/L	0.006	49	3	6	28	KED
	Se	**78**	**0.961**	ug/L	0.059	6	11	40	5	KED
	Y	**89**		ug/L			967000	960273	4	Standard
	Kr	**83**		ug/L			64	199	13	Standard
>	**In-1**	**115**		ug/L			29935	24330	1	KED
	Cd	**111**	**0.004**	ug/L	0.003	78	2	3	31	KED
	Cd	**114**	**0.001**	ug/L	0.004	328	1	1	165	KED
>	**In**	**115**		ug/L			1886335	1689958	1	Standard
		107		ug/L	0.027	25	64	2519	24	Standard
	Sb	**121**	**0.103**	ug/L	0.003	3	64	2625	2	Standard
	Sb	**123**	**0.090**	ug/L	0.004	3	54	1683	4	Standard
	Ba	**135**	**0.131**	ug/L	0.005	4	46	911	3	Standard
	Ba	**137**	**0.128**	ug/L	0.011	8	88	1498	6	Standard
>	**Tb**	**159**		ug/L			2858511	3010850	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	10	73	193	6	Standard
	Pb	**208**	**0.009**	ug/L	0.001	7	373	1615	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:37:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1120973	2	Standard
	Be	**9**	**0.005**	ug/L	0.001	20	6	34	17	Standard
	C	**13**		ug/L			33459	346119	1	Standard
	Cl	**37**		ug/L			8651601	8029939	0	Standard
>	**Sc**	**45**		ug/L			1570082	1506180	0	Standard
	V	**51**	**0.527**	ug/L	0.003	0	8248	24360	0	Standard
	V-1	**51**	**0.425**	ug/L	0.003	0	224	13436	1	Standard
		52		ug/L	0.010	0	24127	73922	1	Standard
	Cr	**53**	**1.590**	ug/L	0.025	1	160	4859	2	Standard
	Mn	**55**	**0.223**	ug/L	0.003	1	777	9871	1	Standard
>	**Ge**	**72**		ug/L			104575	86030	0	KED
	Ni	**60**	**1.191**	ug/L	0.019	1	14	1683	1	KED
	Ni	**62**	**1.259**	ug/L	0.084	6	4	292	6	KED
	Cu	**63**	**4.308**	ug/L	0.062	1	101	17659	1	KED
	Cu	**65**	**4.251**	ug/L	0.046	1	59	8796	1	KED
	Zn	**66**	**2.076**	ug/L	0.138	6	59	1280	6	KED
	Zn	**67**	**1.868**	ug/L	0.153	8	13	193	7	KED
	As	**75**	**0.311**	ug/L	0.015	4	3	91	4	KED
	Se	**78**	**0.124**	ug/L	0.072	58	11	13	17	KED
	Y	**89**		ug/L			967000	893140	0	Standard
	Kr	**83**		ug/L			64	118	5	Standard
>	**In-1**	**115**		ug/L			29935	24399	0	KED
	Cd	**111**	**0.831**	ug/L	0.063	7	2	280	8	KED
	Cd	**114**	**0.873**	ug/L	0.015	1	1	757	1	KED
>	**In**	**115**		ug/L			1886335	1582034	0	Standard
		107		ug/L	0.000	19	64	109	9	Standard
	Sb	**121**	**0.017**	ug/L	0.000	2	64	462	2	Standard
	Sb	**123**	**0.021**	ug/L	0.001	6	54	403	5	Standard
	Ba	**135**	**0.130**	ug/L	0.005	4	46	847	3	Standard
	Ba	**137**	**0.125**	ug/L	0.002	1	88	1372	2	Standard
>	**Tb**	**159**		ug/L			2858511	2677704	0	Standard
	Tl	**205**	**0.003**	ug/L	0.001	20	73	320	15	Standard
	Pb	**208**	**0.011**	ug/L	0.000	3	373	1650	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:45:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1319570	0	Standard
	Be	**9**	**0.001**	ug/L	0.002	154	6	14	71	Standard
	C	**13**		ug/L			33459	35192	0	Standard
	Cl	**37**		ug/L			8651601	8861011	0	Standard
>	**Sc**	**45**		ug/L			1570082	1554845	2	Standard
	V	**51**	**-0.018**	ug/L	0.004	20	8248	7571	1	Standard
	V-1	**51**	**0.003**	ug/L	0.001	21	224	329	4	Standard
	Cr	**52**	**-0.063**	ug/L	0.012	19	24127	22184	1	Standard
	Cr	**53**	**0.010**	ug/L	0.004	33	160	190	4	Standard
	Mn	**55**	**0.015**	ug/L	0.001	4	777	1401	2	Standard
>	**Ge**	**72**		ug/L			104575	100826	0	KED
	Ni	**60**	**0.005**	ug/L	0.006	123	14	21	43	KED
	Ni	**62**	**0.001**	ug/L	0.004	689	4	4	24	KED
	Cu	**63**	**0.005**	ug/L	0.003	54	101	121	10	KED
	Cu	**65**	**-0.004**	ug/L	0.002	42	59	46	10	KED
	Zn	**66**	**0.025**	ug/L	0.009	34	59	74	7	KED
	Zn	**67**	**0.021**	ug/L	0.041	196	13	15	30	KED
	As	**75**	**-0.003**	ug/L	0.001	28	3	2	13	KED
	Se	**78**	**0.111**	ug/L	0.054	48	11	14	13	KED
	Y	**89**		ug/L			967000	946252	1	Standard
	Kr	**83**		ug/L			64	73	20	Standard
>	**In-1**	**115**		ug/L			29935	27622	1	KED
	Cd	**111**	**0.002**	ug/L	0.004	177	2	3	45	KED
	Cd	**114**	**0.002**	ug/L	0.004	196	1	3	129	KED
>	**In**	**115**		ug/L			1886335	1797709	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	58	64	86	16	Standard
	Sb	**121**	**0.006**	ug/L	0.001	13	64	212	9	Standard
	Sb	**123**	**0.005**	ug/L	0.001	15	54	148	9	Standard
	Ba	**135**	**0.001**	ug/L	0.002	131	46	53	23	Standard
	Ba	**137**	**-0.001**	ug/L	0.001	244	88	77	19	Standard
>	**Tb**	**159**		ug/L			2858511	2805230	1	Standard
	Tl	**205**	**0.001**	ug/L	0.000	15	73	157	8	Standard
	Pb	**208**	**0.002**	ug/L	0.000	25	373	573	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:50:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1316140	3	Standard
	Be	**9**	**0.001**	ug/L	0.001	86	6	15	45	Standard
	C	**13**		ug/L			33459	34727	0	Standard
	Cl	**37**		ug/L			8651601	8784585	1	Standard
>	**Sc**	**45**		ug/L			1570082	1563077	0	Standard
	V	**51**	**-0.026**	ug/L	0.001	5	8248	7385	0	Standard
	V-1	**51**	**0.002**	ug/L	0.001	26	224	293	7	Standard
	Cr	**52**	**-0.083**	ug/L	0.005	6	24127	21759	0	Standard
	Cr	**53**	**0.010**	ug/L	0.001	6	160	190	2	Standard
	Mn	**55**	**0.013**	ug/L	0.001	4	777	1306	1	Standard
>	**Ge**	**72**		ug/L			104575	99009	0	KED
	Ni	**60**	**-0.002**	ug/L	0.001	74	14	10	20	KED
	Ni	**62**	**0.008**	ug/L	0.008	101	4	6	34	KED
	Cu	**63**	**0.004**	ug/L	0.005	127	101	114	19	KED
	Cu	**65**	**-0.006**	ug/L	0.000	5	59	41	2	KED
	Zn	**66**	**0.051**	ug/L	0.019	36	59	91	14	KED
	Zn	**67**	**0.012**	ug/L	0.077	629	13	14	58	KED
	As	**75**	**0.003**	ug/L	0.006	200	3	3	48	KED
	Se	**78**	**0.070**	ug/L	0.024	34	11	13	7	KED
	Y	**89**		ug/L			967000	952681	1	Standard
	Kr	**83**		ug/L			64	71	8	Standard
>	**In-1**	**115**		ug/L			29935	26913	1	KED
	Cd	**111**	**-0.001**	ug/L	0.003	264	2	1	50	KED
	Cd	**114**	**0.001**	ug/L	0.003	241	1	2	133	KED
>	**In**	**115**		ug/L			1886335	1805383	1	Standard
	Ag	**107**	**0.001**	ug/L	0.000	31	64	82	8	Standard
	Sb	**121**	**0.003**	ug/L	0.001	24	64	145	14	Standard
	Sb	**123**	**0.003**	ug/L	0.001	17	54	117	9	Standard
	Ba	**135**	**0.001**	ug/L	0.001	71	46	52	11	Standard
	Ba	**137**	**-0.000**	ug/L	0.001	430	88	82	11	Standard
>	**Tb**	**159**		ug/L			2858511	2814084	2	Standard
	Tl	**205**	**0.001**	ug/L	0.000	20	73	126	8	Standard
	Pb	**208**	**0.002**	ug/L	0.000	25	373	563	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:55:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1239840	3	Standard
	Be	**9**	**47.005**	ug/L	1.265	2	6	291824	0	Standard
	C	**13**		ug/L			33459	31677	0	Standard
	Cl	**37**		ug/L			8651601	9024207	0	Standard
>	**Sc**	**45**		ug/L			1570082	1539879	2	Standard
	V	**51**	**46.454**	ug/L	0.613	1	8248	1489247	0	Standard
	V-1	**51**	**47.072**	ug/L	0.461	0	224	1497807	1	Standard
	Cr	**52**	**46.838**	ug/L	1.137	2	24127	1286698	0	Standard
	Cr	**53**	**48.921**	ug/L	0.658	1	160	148134	1	Standard
	Mn	**55**	**51.506**	ug/L	0.908	1	777	2150413	0	Standard
>	**Ge**	**72**		ug/L			104575	94333	5	KED
	Ni	**60**	**51.699**	ug/L	2.894	5	14	79393	0	KED
	Ni	**62**	**51.751**	ug/L	2.593	5	4	13012	0	KED
	Cu	**63**	**52.449**	ug/L	2.586	4	101	234298	0	KED
	Cu	**65**	**51.979**	ug/L	2.568	4	59	117117	0	KED
	Zn	**66**	**52.044**	ug/L	2.599	4	59	33825	0	KED
	Zn	**67**	**52.126**	ug/L	3.285	6	13	5574	0	KED
	As	**75**	**50.560**	ug/L	2.905	5	3	15772	0	KED
	Se	**78**	**51.052**	ug/L	1.875	3	11	1783	1	KED
	Y	**89**		ug/L			967000	957199	1	Standard
	Kr	**83**		ug/L			64	69	17	Standard
>	**In-1**	**115**		ug/L			29935	26617	0	KED
	Cd	**111**	**50.293**	ug/L	0.395	0	2	18407	0	KED
	Cd	**114**	**50.497**	ug/L	0.442	0	1	47765	0	KED
>	**In**	**115**		ug/L			1886335	1779401	0	Standard
	Ag	**107**	**53.011**	ug/L	0.324	0	64	1310589	0	Standard
	Sb	**121**	**46.303**	ug/L	0.311	0	64	1217696	0	Standard
	Sb	**123**	**48.245**	ug/L	0.557	1	54	918721	0	Standard
	Ba	**135**	**45.468**	ug/L	0.137	0	46	317329	0	Standard
	Ba	**137**	**45.470**	ug/L	0.184	0	88	531861	0	Standard
>	**Tb**	**159**		ug/L			2858511	2896234	0	Standard
	Tl	**205**	**51.058**	ug/L	0.112	0	73	4736607	0	Standard
	Pb	**208**	**48.728**	ug/L	0.484	0	373	6101406	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:03:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1250751	2	Standard
	Be	**9**	**0.001**	ug/L	0.000	27	6	16	13	Standard
	C	**13**		ug/L			33459	32481	1	Standard
	Cl	**37**		ug/L			8651601	8757312	0	Standard
>	**Sc**	**45**		ug/L			1570082	1534494	1	Standard
	V	**51**	**-0.011**	ug/L	0.005	49	8248	7721	1	Standard
	V-1	**51**	**0.001**	ug/L	0.000	52	224	246	4	Standard
	Cr	**52**	**-0.035**	ug/L	0.024	69	24127	22631	1	Standard
	Cr	**53**	**0.003**	ug/L	0.010	283	160	166	16	Standard
	Mn	**55**	**0.008**	ug/L	0.001	7	777	1106	3	Standard
>	**Ge**	**72**		ug/L			104575	100163	1	KED
	Ni	**60**	**-0.003**	ug/L	0.002	71	14	9	34	KED
	Ni	**62**	**0.012**	ug/L	0.019	149	4	7	66	KED
	Cu	**63**	**0.005**	ug/L	0.004	92	101	119	17	KED
	Cu	**65**	**-0.000**	ug/L	0.006	1302	59	55	25	KED
	Zn	**66**	**0.015**	ug/L	0.028	180	59	67	29	KED
	Zn	**67**	**0.006**	ug/L	0.040	734	13	13	31	KED
	As	**75**	**0.003**	ug/L	0.003	95	3	4	24	KED
	Se	**78**	**0.099**	ug/L	0.075	75	11	14	19	KED
	Y	**89**		ug/L			967000	940542	0	Standard
	Kr	**83**		ug/L			64	52	5	Standard
>	**In-1**	**115**		ug/L			29935	27647	1	KED
	Cd	**111**	**-0.004**	ug/L	0.002	67	2	0	100	KED
	Cd	**114**	**-0.001**	ug/L	0.001	170	1	0	262	KED
>	**In**	**115**		ug/L			1886335	1818337	0	Standard
	Ag	**107**	**0.005**	ug/L	0.001	16	64	175	10	Standard
	Sb	**121**	**0.039**	ug/L	0.001	1	64	1100	1	Standard
	Sb	**123**	**0.040**	ug/L	0.001	2	54	822	1	Standard
	Ba	**135**	**0.008**	ug/L	0.003	32	46	104	18	Standard
	Ba	**137**	**0.010**	ug/L	0.001	8	88	206	5	Standard
>	**Tb**	**159**		ug/L			2858511	2853093	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	23	73	243	15	Standard
	Pb	**208**	**0.001**	ug/L	0.000	23	373	551	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:11:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1227002	3	Standard
	Be	**9**	**23.535**	ug/L	1.065	4	6	144555	1	Standard
	C	**13**		ug/L			33459	49133	1	Standard
	Cl	**37**		ug/L			8651601	8675406	0	Standard
>	**Sc**	**45**		ug/L			1570082	1706673	1	Standard
	V	**51**	**49.161**	ug/L	0.643	1	8248	1746368	1	Standard
	V-1	**51**	**49.533**	ug/L	0.560	1	224	1746896	1	Standard
	Cr	**52**	**33.663**	ug/L	0.441	1	24127	1032598	1	Standard
	Cr	**53**	**34.799**	ug/L	0.156	0	160	116852	1	Standard
	Mn	**55**	**219.722**	ug/L	2.545	1	777	10166675	1	Standard
>	**Ge**	**72**		ug/L			104575	97791	0	KED
	Ni	**60**	**42.441**	ug/L	0.422	0	14	67704	1	KED
	Ni	**62**	**42.049**	ug/L	0.733	1	4	10980	1	KED
	Cu	**63**	**40.373**	ug/L	0.414	1	101	187319	1	KED
	Cu	**65**	**40.501**	ug/L	0.337	0	59	94779	0	KED
	Zn	**66**	**110.990**	ug/L	0.124	0	59	74852	0	KED
	Zn	**67**	**106.906**	ug/L	0.481	0	13	11864	0	KED
	As	**75**	**27.858**	ug/L	0.306	1	3	9028	0	KED
	Se	**78**	**76.089**	ug/L	1.013	1	11	2754	2	KED
	Y	**89**		ug/L			967000	1266164	1	Standard
	Kr	**83**		ug/L			64	149	14	Standard
>	**In-1**	**115**		ug/L			29935	27402	0	KED
	Cd	**111**	**25.114**	ug/L	0.420	1	2	9464	1	KED
	Cd	**114**	**25.093**	ug/L	0.493	1	1	24436	1	KED
>	**In**	**115**		ug/L			1886335	1771892	0	Standard
		107		ug/L	0.317	1	64	645346	1	Standard
	Sb	**121**	**0.029**	ug/L	0.000	0	64	819	0	Standard
	Sb	**123**	**0.030**	ug/L	0.002	7	54	619	7	Standard
	Ba	**135**	**52.416**	ug/L	0.423	0	46	364260	0	Standard
	Ba	**137**	**52.631**	ug/L	0.472	0	88	612996	0	Standard
>	**Tb**	**159**		ug/L			2858511	3018603	1	Standard
	Tl	**205**	**25.125**	ug/L	0.358	1	73	2429055	0	Standard
	Pb	**208**	**26.165**	ug/L	0.431	1	373	3414565	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:16:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1192768	3	Standard
	Be	**9**	**0.226**	ug/L	0.011	4	6	1354	2	Standard
	C	**13**		ug/L			33459	51182	2	Standard
	Cl	**37**		ug/L			8651601	8464835	0	Standard
>	**Sc**	**45**		ug/L			1570082	1723474	0	Standard
	V	**51**	**32.258**	ug/L	0.201	0	8248	1160419	0	Standard
	V-1	**51**	**32.552**	ug/L	0.219	0	224	1159491	0	Standard
		52		ug/L	0.073	0	24127	468957	0	Standard
	Cr	**53**	**15.511**	ug/L	0.123	0	160	52695	0	Standard
	Mn	**55**	**526.945**	ug/L	14.996	2	777	24618520	2	Standard
>	**Ge**	**72**		ug/L			104575	97579	0	KED
	Ni	**60**	**17.130**	ug/L	0.283	1	14	27276	1	KED
	Ni	**62**	**17.301**	ug/L	0.100	0	4	4510	0	KED
	Cu	**63**	**30.867**	ug/L	0.129	0	101	142922	0	KED
	Cu	**65**	**31.029**	ug/L	0.113	0	59	72468	0	KED
	Zn	**66**	**59.568**	ug/L	0.423	0	59	40110	0	KED
	Zn	**67**	**57.417**	ug/L	1.109	1	13	6363	1	KED
	As	**75**	**8.682**	ug/L	0.043	0	3	2809	0	KED
	Se	**78**	**0.826**	ug/L	0.095	11	11	40	8	KED
	Y	**89**		ug/L			967000	1327659	2	Standard
	Kr	**83**		ug/L			64	144	4	Standard
>	**In-1**	**115**		ug/L			29935	26926	1	KED
	Cd	**111**	**0.075**	ug/L	0.013	17	2	29	15	KED
	Cd	**114**	**0.071**	ug/L	0.008	11	1	68	10	KED
>	**In**	**115**		ug/L			1886335	1788612	0	Standard
		107		ug/L	0.006	5	64	2671	5	Standard
	Sb	**121**	**0.046**	ug/L	0.002	3	64	1263	2	Standard
	Sb	**123**	**0.049**	ug/L	0.004	7	54	980	6	Standard
	Ba	**135**	**28.575**	ug/L	0.397	1	46	200465	0	Standard
	Ba	**137**	**28.549**	ug/L	0.245	0	88	335684	0	Standard
>	**Tb**	**159**		ug/L			2858511	3080334	0	Standard
	Tl	**205**	**0.035**	ug/L	0.001	1	73	3554	1	Standard
	Pb	**208**	**9.550**	ug/L	0.030	0	373	1272210	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:21:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1183389	1	Standard
	Be	**9**	**0.206**	ug/L	0.006	2	6	1227	3	Standard
	C	**13**		ug/L			33459	55174	1	Standard
	Cl	**37**		ug/L			8651601	8528006	0	Standard
>	**Sc**	**45**		ug/L			1570082	1672814	1	Standard
	V	**51**	**34.198**	ug/L	0.588	1	8248	1193406	0	Standard
	V-1	**51**	**34.556**	ug/L	0.560	1	224	1194603	0	Standard
		52		ug/L	0.105	0	24127	671399	1	Standard
	Cr	**53**	**23.148**	ug/L	0.084	0	160	76250	1	Standard
	Mn	**55**	**145.898**	ug/L	1.401	0	777	6617010	0	Standard
>	**Ge**	**72**		ug/L			104575	97126	0	KED
	Ni	**60**	**17.594**	ug/L	0.224	1	14	27881	0	KED
	Ni	**62**	**17.923**	ug/L	0.491	2	4	4651	3	KED
	Cu	**63**	**18.683**	ug/L	0.253	1	101	86140	0	KED
	Cu	**65**	**18.656**	ug/L	0.374	2	59	43387	1	KED
	Zn	**66**	**37.536**	ug/L	1.164	3	59	25174	2	KED
	Zn	**67**	**36.936**	ug/L	0.920	2	13	4079	1	KED
	As	**75**	**3.427**	ug/L	0.048	1	3	1105	0	KED
	Se	**78**	**0.555**	ug/L	0.080	14	11	30	10	KED
	Y	**89**		ug/L			967000	1259423	1	Standard
	Kr	**83**		ug/L			64	133	3	Standard
>	**In-1**	**115**		ug/L			29935	26279	1	KED
	Cd	**111**	**0.104**	ug/L	0.021	19	2	39	18	KED
	Cd	**114**	**0.083**	ug/L	0.015	18	1	78	17	KED
>	**In**	**115**		ug/L			1886335	1775177	0	Standard
		107		ug/L	0.002	2	64	2045	2	Standard
	Sb	**121**	**0.023**	ug/L	0.001	5	64	663	4	Standard
	Sb	**123**	**0.023**	ug/L	0.001	5	54	487	5	Standard
	Ba	**135**	**23.916**	ug/L	0.060	0	46	166535	0	Standard
	Ba	**137**	**24.337**	ug/L	0.040	0	88	284027	0	Standard
>	**Tb**	**159**		ug/L			2858511	3038570	0	Standard
	Tl	**205**	**0.050**	ug/L	0.001	2	73	4990	3	Standard
	Pb	**208**	**3.398**	ug/L	0.022	0	373	446748	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:26:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1172792	1	Standard
	Be	**9**	**0.153**	ug/L	0.003	2	6	905	0	Standard
	C	**13**		ug/L			33459	49181	1	Standard
	Cl	**37**		ug/L			8651601	8476575	0	Standard
>	**Sc**	**45**		ug/L			1570082	1626384	0	Standard
	V	**51**	**25.722**	ug/L	0.220	0	8248	874950	1	Standard
	V-1	**51**	**25.949**	ug/L	0.201	0	224	872337	1	Standard
		52		ug/L	0.114	0	24127	387563	1	Standard
	Cr	**53**	**13.392**	ug/L	0.049	0	160	42959	0	Standard
	Mn	**55**	**139.698**	ug/L	0.835	0	777	6160511	1	Standard
>	**Ge**	**72**		ug/L			104575	95371	1	KED
	Ni	**60**	**13.484**	ug/L	0.171	1	14	20986	1	KED
	Ni	**62**	**13.463**	ug/L	0.696	5	4	3429	3	KED
	Cu	**63**	**14.653**	ug/L	0.320	2	101	66363	2	KED
	Cu	**65**	**14.555**	ug/L	0.075	0	59	33253	1	KED
	Zn	**66**	**32.666**	ug/L	0.532	1	59	21520	0	KED
	Zn	**67**	**32.239**	ug/L	1.539	4	13	3496	3	KED
	As	**75**	**3.396**	ug/L	0.093	2	3	1075	1	KED
	Se	**78**	**0.481**	ug/L	0.115	23	11	27	16	KED
	Y	**89**		ug/L			967000	1174237	0	Standard
	Kr	**83**		ug/L			64	106	2	Standard
>	**In-1**	**115**		ug/L			29935	26124	0	KED
	Cd	**111**	**0.042**	ug/L	0.005	12	2	17	11	KED
	Cd	**114**	**0.049**	ug/L	0.007	14	1	46	14	KED
>	**In**	**115**		ug/L			1886335	1780968	0	Standard
		107		ug/L	0.001	1	64	1269	1	Standard
	Sb	**121**	**0.021**	ug/L	0.000	2	64	609	2	Standard
	Sb	**123**	**0.021**	ug/L	0.003	12	54	444	10	Standard
	Ba	**135**	**28.023**	ug/L	0.394	1	46	195752	0	Standard
	Ba	**137**	**28.340**	ug/L	0.155	0	88	331813	0	Standard
>	**Tb**	**159**		ug/L			2858511	3001090	0	Standard
	Tl	**205**	**0.047**	ug/L	0.001	2	73	4636	2	Standard
	Pb	**208**	**2.758**	ug/L	0.013	0	373	358170	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:31:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1169884	3	Standard
	Be	**9**	**0.236**	ug/L	0.011	4	6	1389	2	Standard
	C	**13**		ug/L			33459	44666	1	Standard
	Cl	**37**		ug/L			8651601	8411553	0	Standard
>	**Sc**	**45**		ug/L			1570082	1611848	1	Standard
	V	**51**	**29.297**	ug/L	0.581	1	8248	986206	0	Standard
	V-1	**51**	**29.628**	ug/L	0.548	1	224	986817	0	Standard
		52		ug/L	0.301	1	24127	673792	0	Standard
	Cr	**53**	**24.054**	ug/L	0.183	0	160	76333	1	Standard
	Mn	**55**	**341.488**	ug/L	7.070	2	777	14919992	0	Standard
>	**Ge**	**72**		ug/L			104575	96336	0	KED
	Ni	**60**	**22.099**	ug/L	0.363	1	14	34732	1	KED
	Ni	**62**	**21.707**	ug/L	0.634	2	4	5585	2	KED
	Cu	**63**	**15.507**	ug/L	0.056	0	101	70933	0	KED
	Cu	**65**	**15.590**	ug/L	0.129	0	59	35975	0	KED
	Zn	**66**	**35.875**	ug/L	0.239	0	59	23871	1	KED
	Zn	**67**	**34.507**	ug/L	0.134	0	13	3781	0	KED
	As	**75**	**2.146**	ug/L	0.016	0	3	687	0	KED
	Se	**78**	**0.636**	ug/L	0.111	17	11	32	12	KED
	Y	**89**		ug/L			967000	1320652	0	Standard
	Kr	**83**		ug/L			64	149	3	Standard
>	**In-1**	**115**		ug/L			29935	26000	0	KED
	Cd	**111**	**0.042**	ug/L	0.010	23	2	17	20	KED
	Cd	**114**	**0.043**	ug/L	0.008	18	1	41	18	KED
>	**In**	**115**		ug/L			1886335	1732875	0	Standard
		107		ug/L	0.002	5	64	1031	5	Standard
	Sb	**121**	**0.009**	ug/L	0.001	13	64	286	10	Standard
	Sb	**123**	**0.011**	ug/L	0.002	17	54	249	13	Standard
	Ba	**135**	**16.671**	ug/L	0.121	0	46	113330	0	Standard
	Ba	**137**	**16.921**	ug/L	0.181	1	88	192797	0	Standard
>	**Tb**	**159**		ug/L			2858511	3008700	2	Standard
	Tl	**205**	**0.028**	ug/L	0.001	2	73	2762	1	Standard
	Pb	**208**	**1.445**	ug/L	0.040	2	373	188223	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:36:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1126644	1	Standard
	Be	**9**	**0.180**	ug/L	0.009	5	6	1020	6	Standard
	C	**13**		ug/L			33459	44676	0	Standard
	Cl	**37**		ug/L			8651601	8257232	0	Standard
>	**Sc**	**45**		ug/L			1570082	1604375	1	Standard
	V	**51**	**30.176**	ug/L	0.110	0	8248	1011043	1	Standard
	V-1	**51**	**30.429**	ug/L	0.082	0	224	1008985	1	Standard
		52		ug/L	0.160	1	24127	461254	1	Standard
	Cr	**53**	**16.275**	ug/L	0.163	1	160	51463	1	Standard
	Mn	**55**	**296.733**	ug/L	2.523	0	777	12906527	0	Standard
>	**Ge**	**72**		ug/L			104575	93981	0	KED
	Ni	**60**	**18.149**	ug/L	0.331	1	14	27830	1	KED
	Ni	**62**	**18.867**	ug/L	0.413	2	4	4737	2	KED
	Cu	**63**	**18.026**	ug/L	0.482	2	101	80423	2	KED
	Cu	**65**	**17.897**	ug/L	0.328	1	59	40280	1	KED
	Zn	**66**	**31.747**	ug/L	0.648	2	59	20614	2	KED
	Zn	**67**	**29.931**	ug/L	0.522	1	13	3201	2	KED
	As	**75**	**2.746**	ug/L	0.044	1	3	857	2	KED
	Se	**78**	**0.573**	ug/L	0.141	24	11	29	15	KED
	Y	**89**		ug/L			967000	1188759	1	Standard
	Kr	**83**		ug/L			64	126	12	Standard
>	**In-1**	**115**		ug/L			29935	25247	2	KED
	Cd	**111**	**0.036**	ug/L	0.006	17	2	14	13	KED
	Cd	**114**	**0.044**	ug/L	0.011	25	1	40	23	KED
>	**In**	**115**		ug/L			1886335	1723803	1	Standard
		107		ug/L	0.000	0	64	886	0	Standard
	Sb	**121**	**0.012**	ug/L	0.002	13	64	372	10	Standard
	Sb	**123**	**0.012**	ug/L	0.002	15	54	278	13	Standard
	Ba	**135**	**20.909**	ug/L	0.114	0	46	141383	0	Standard
	Ba	**137**	**21.454**	ug/L	0.154	0	88	243143	0	Standard
>	**Tb**	**159**		ug/L			2858511	2978385	0	Standard
	Tl	**205**	**0.049**	ug/L	0.003	5	73	4719	5	Standard
	Pb	**208**	**2.137**	ug/L	0.022	1	373	275534	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:41:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1125473	1	Standard
	Be	**9**	**0.188**	ug/L	0.002	1	6	1068	0	Standard
	C	**13**		ug/L			33459	45477	1	Standard
	Cl	**37**		ug/L			8651601	8257070	0	Standard
>	**Sc**	**45**		ug/L			1570082	1606445	1	Standard
	V	**51**	**25.988**	ug/L	0.222	0	8248	872953	0	Standard
	V-1	**51**	**26.166**	ug/L	0.182	0	224	868738	1	Standard
		52		ug/L	0.149	1	24127	355221	0	Standard
	Cr	**53**	**12.239**	ug/L	0.063	0	160	38791	1	Standard
	Mn	**55**	**220.786**	ug/L	0.864	0	777	9616807	2	Standard
>	**Ge**	**72**		ug/L			104575	94080	0	KED
	Ni	**60**	**17.141**	ug/L	0.331	1	14	26312	1	KED
	Ni	**62**	**17.474**	ug/L	0.238	1	4	4392	1	KED
	Cu	**63**	**15.567**	ug/L	0.181	1	101	69539	0	KED
	Cu	**65**	**15.542**	ug/L	0.208	1	59	35024	0	KED
	Zn	**66**	**30.841**	ug/L	0.698	2	59	20047	1	KED
	Zn	**67**	**29.948**	ug/L	0.450	1	13	3206	1	KED
	As	**75**	**9.759**	ug/L	0.084	0	3	3044	1	KED
	Se	**78**	**0.831**	ug/L	0.106	12	11	38	9	KED
	Y	**89**		ug/L			967000	1220975	2	Standard
	Kr	**83**		ug/L			64	143	9	Standard
>	**In-1**	**115**		ug/L			29935	25448	2	KED
	Cd	**111**	**0.037**	ug/L	0.008	21	2	15	16	KED
	Cd	**114**	**0.034**	ug/L	0.005	14	1	31	16	KED
>	**In**	**115**		ug/L			1886335	1743369	1	Standard
		107		ug/L	0.003	4	64	1376	5	Standard
	Sb	**121**	**0.016**	ug/L	0.001	7	64	476	4	Standard
	Sb	**123**	**0.016**	ug/L	0.001	8	54	354	5	Standard
	Ba	**135**	**17.571**	ug/L	0.207	1	46	120156	1	Standard
	Ba	**137**	**17.723**	ug/L	0.066	0	88	203159	1	Standard
>	**Tb**	**159**		ug/L			2858511	2953664	1	Standard
	Tl	**205**	**0.027**	ug/L	0.000	1	73	2644	1	Standard
	Pb	**208**	**3.016**	ug/L	0.037	1	373	385480	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:46:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1155700	1	Standard
	Be	**9**	**0.144**	ug/L	0.006	4	6	841	2	Standard
	C	**13**		ug/L			33459	45214	1	Standard
	Cl	**37**		ug/L			8651601	8296128	1	Standard
>	**Sc**	**45**		ug/L			1570082	1614288	1	Standard
	V	**51**	**25.413**	ug/L	0.290	1	8248	858018	0	Standard
	V-1	**51**	**25.615**	ug/L	0.286	1	224	854603	0	Standard
		52		ug/L	0.073	0	24127	342121	1	Standard
	Cr	**53**	**11.793**	ug/L	0.057	0	160	37567	1	Standard
	Mn	**55**	**329.905**	ug/L	1.412	0	777	14438494	0	Standard
>	**Ge**	**72**		ug/L			104575	94801	1	KED
	Ni	**60**	**17.213**	ug/L	0.508	2	14	26617	1	KED
	Ni	**62**	**17.091**	ug/L	0.223	1	4	4328	0	KED
	Cu	**63**	**11.204**	ug/L	0.142	1	101	50451	0	KED
	Cu	**65**	**11.129**	ug/L	0.260	2	59	25280	0	KED
	Zn	**66**	**25.549**	ug/L	0.425	1	59	16745	2	KED
	Zn	**67**	**25.714**	ug/L	0.055	0	13	2776	1	KED
	As	**75**	**2.662**	ug/L	0.069	2	3	839	3	KED
	Se	**78**	**0.365**	ug/L	0.059	16	11	22	7	KED
	Y	**89**		ug/L			967000	1166912	0	Standard
	Kr	**83**		ug/L			64	120	11	Standard
>	**In-1**	**115**		ug/L			29935	23006	12	KED
	Cd	**111**	**0.028**	ug/L	0.012	42	2	11	42	KED
	Cd	**114**	**0.029**	ug/L	0.009	30	1	24	24	KED
>	**In**	**115**		ug/L			1886335	1746587	1	Standard
		107		ug/L	0.002	4	64	867	2	Standard
	Sb	**121**	**0.015**	ug/L	0.001	9	64	450	7	Standard
	Sb	**123**	**0.015**	ug/L	0.002	12	54	330	8	Standard
	Ba	**135**	**24.875**	ug/L	0.555	2	46	170378	0	Standard
	Ba	**137**	**25.117**	ug/L	0.571	2	88	288337	0	Standard
>	**Tb**	**159**		ug/L			2858511	2980888	0	Standard
	Tl	**205**	**0.037**	ug/L	0.000	0	73	3622	1	Standard
	Pb	**208**	**2.502**	ug/L	0.008	0	373	322832	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:51:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1171987	1	Standard
	Be	**9**	**0.156**	ug/L	0.005	3	6	921	3	Standard
	C	**13**		ug/L			33459	44664	1	Standard
	Cl	**37**		ug/L			8651601	8221157	1	Standard
>	**Sc**	**45**		ug/L			1570082	1593438	0	Standard
	V	**51**	**27.281**	ug/L	0.147	0	8248	908634	0	Standard
	V-1	**51**	**27.458**	ug/L	0.075	0	224	904313	0	Standard
		52		ug/L	0.186	1	24127	354424	1	Standard
	Cr	**53**	**12.300**	ug/L	0.085	0	160	38668	0	Standard
	Mn	**55**	**333.333**	ug/L	3.371	1	777	14400054	0	Standard
>	**Ge**	**72**		ug/L			104575	95516	0	KED
	Ni	**60**	**17.265**	ug/L	0.345	2	14	26907	1	KED
	Ni	**62**	**17.249**	ug/L	0.422	2	4	4401	2	KED
	Cu	**63**	**12.383**	ug/L	0.026	0	101	56182	0	KED
	Cu	**65**	**12.520**	ug/L	0.252	2	59	28653	1	KED
	Zn	**66**	**28.824**	ug/L	0.143	0	59	19027	0	KED
	Zn	**67**	**28.194**	ug/L	0.606	2	13	3065	2	KED
	As	**75**	**2.741**	ug/L	0.049	1	3	870	1	KED
	Se	**78**	**0.470**	ug/L	0.223	47	11	26	29	KED
	Y	**89**		ug/L			967000	1182184	1	Standard
	Kr	**83**		ug/L			64	144	3	Standard
>	**In-1**	**115**		ug/L			29935	26201	2	KED
	Cd	**111**	**0.034**	ug/L	0.010	30	2	14	24	KED
	Cd	**114**	**0.040**	ug/L	0.007	16	1	38	18	KED
>	**In**	**115**		ug/L			1886335	1746379	0	Standard
		107		ug/L	0.001	1	64	1044	1	Standard
	Sb	**121**	**0.014**	ug/L	0.000	3	64	421	2	Standard
	Sb	**123**	**0.014**	ug/L	0.001	8	54	315	7	Standard
	Ba	**135**	**16.992**	ug/L	0.180	1	46	116412	0	Standard
	Ba	**137**	**17.099**	ug/L	0.181	1	88	196344	0	Standard
>	**Tb**	**159**		ug/L			2858511	2990985	0	Standard
	Tl	**205**	**0.035**	ug/L	0.001	2	73	3432	2	Standard
	Pb	**208**	**2.174**	ug/L	0.023	1	373	281481	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:56:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1149966	1	Standard
	Be	**9**	**0.001**	ug/L	0.001	104	6	12	45	Standard
	C	**13**		ug/L			33459	30643	1	Standard
	Cl	**37**		ug/L			8651601	7914999	0	Standard
>	**Sc**	**45**		ug/L			1570082	1481798	2	Standard
	V	**51**	**-0.012**	ug/L	0.004	33	8248	7411	0	Standard
	V-1	**51**	**-0.002**	ug/L	0.000	13	224	137	8	Standard
	Cr	**52**	**-0.030**	ug/L	0.011	34	24127	21981	1	Standard
	Cr	**53**	**0.002**	ug/L	0.004	192	160	157	9	Standard
	Mn	**55**	**0.008**	ug/L	0.002	19	777	1058	4	Standard
>	**Ge**	**72**		ug/L			104575	95780	0	KED
	Ni	**60**	**-0.000**	ug/L	0.002	428	14	12	22	KED
	Ni	**62**	**0.011**	ug/L	0.011	99	4	6	41	KED
	Cu	**63**	**0.001**	ug/L	0.005	391	101	98	21	KED
	Cu	**65**	**-0.001**	ug/L	0.003	394	59	52	15	KED
	Zn	**66**	**0.028**	ug/L	0.019	68	59	73	17	KED
	Zn	**67**	**0.011**	ug/L	0.079	735	13	13	61	KED
	As	**75**	**0.003**	ug/L	0.001	26	3	3	6	KED
	Se	**78**	**0.052**	ug/L	0.090	174	11	11	26	KED
	Y	**89**		ug/L			967000	909643	0	Standard
	Kr	**83**		ug/L			64	63	9	Standard
>	**In-1**	**115**		ug/L			29935	25523	0	KED
	Cd	**111**	**-0.003**	ug/L	0.002	61	2	1	43	KED
	Cd	**114**	**0.001**	ug/L	0.002	223	1	1	107	KED
>	**In**	**115**		ug/L			1886335	1750407	0	Standard
	Ag	**107**	**0.000**	ug/L	0.000	116	64	64	8	Standard
	Sb	**121**	**0.003**	ug/L	0.000	8	64	131	3	Standard
	Sb	**123**	**0.002**	ug/L	0.000	5	54	97	2	Standard
	Ba	**135**	**-0.001**	ug/L	0.003	310	46	37	46	Standard
	Ba	**137**	**-0.002**	ug/L	0.001	28	88	56	13	Standard
>	**Tb**	**159**		ug/L			2858511	2811648	1	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	78	73	59	16	Standard
	Pb	**208**	**-0.000**	ug/L	0.000	138	373	346	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:01:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1167437	2	Standard
	Be	**9**	**47.515**	ug/L	1.524	3	6	277747	0	Standard
	C	**13**		ug/L			33459	30134	1	Standard
	Cl	**37**		ug/L			8651601	8676464	0	Standard
>	**Sc**	**45**		ug/L			1570082	1487665	0	Standard
	V	**51**	**45.953**	ug/L	0.787	1	8248	1423668	2	Standard
	V-1	**51**	**46.493**	ug/L	0.657	1	224	1429474	1	Standard
	Cr	**52**	**46.958**	ug/L	0.545	1	24127	1246662	1	Standard
	Cr	**53**	**48.780**	ug/L	0.319	0	160	142729	0	Standard
	Mn	**55**	**48.136**	ug/L	0.277	0	777	1942146	0	Standard
>	**Ge**	**72**		ug/L			104575	94844	0	KED
	Ni	**60**	**49.921**	ug/L	0.602	1	14	77234	1	KED
	Ni	**62**	**49.306**	ug/L	0.555	1	4	12486	0	KED
	Cu	**63**	**50.223**	ug/L	0.238	0	101	225968	0	KED
	Cu	**65**	**50.521**	ug/L	0.345	0	59	114653	0	KED
	Zn	**66**	**50.718**	ug/L	0.812	1	59	33201	1	KED
	Zn	**67**	**48.863**	ug/L	0.637	1	13	5266	1	KED
	As	**75**	**49.033**	ug/L	0.421	0	3	15410	0	KED
	Se	**78**	**49.411**	ug/L	0.683	1	11	1738	1	KED
	Y	**89**		ug/L			967000	915233	0	Standard
	Kr	**83**		ug/L			64	71	8	Standard
>	**In-1**	**115**		ug/L			29935	25431	1	KED
	Cd	**111**	**50.779**	ug/L	0.580	1	2	17756	0	KED
	Cd	**114**	**51.303**	ug/L	0.117	0	1	46367	1	KED
>	**In**	**115**		ug/L			1886335	1735270	1	Standard
	Ag	**107**	**50.228**	ug/L	1.653	3	64	1210724	2	Standard
	Sb	**121**	**46.843**	ug/L	0.849	1	64	1201219	1	Standard
	Sb	**123**	**49.069**	ug/L	0.887	1	54	911167	0	Standard
	Ba	**135**	**45.281**	ug/L	0.555	1	46	308158	0	Standard
	Ba	**137**	**45.406**	ug/L	0.870	1	88	517874	0	Standard
>	**Tb**	**159**		ug/L			2858511	2869220	1	Standard
	Tl	**205**	**50.636**	ug/L	0.096	0	73	4653493	0	Standard
	Pb	**208**	**48.326**	ug/L	0.433	0	373	5994490	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:09:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1167517	2	Standard
	Be	**9**	**0.001**	ug/L	0.001	79	6	12	36	Standard
	C	**13**		ug/L			33459	31001	0	Standard
	Cl	**37**		ug/L			8651601	8366500	0	Standard
>	**Sc**	**45**		ug/L			1570082	1499006	1	Standard
	V	**51**	**0.003**	ug/L	0.003	119	8248	7963	1	Standard
	V-1	**51**	**-0.002**	ug/L	0.000	14	224	138	9	Standard
	Cr	**52**	**0.012**	ug/L	0.013	112	24127	23339	1	Standard
	Cr	**53**	**-0.006**	ug/L	0.002	30	160	134	4	Standard
	Mn	**55**	**0.006**	ug/L	0.002	29	777	973	5	Standard
>	**Ge**	**72**		ug/L			104575	95945	0	KED
	Ni	**60**	**0.000**	ug/L	0.004	1040	14	13	41	KED
	Ni	**62**	**-0.004**	ug/L	0.004	121	4	3	34	KED
	Cu	**63**	**0.009**	ug/L	0.002	16	101	135	5	KED
	Cu	**65**	**0.001**	ug/L	0.004	270	59	57	13	KED
	Zn	**66**	**0.048**	ug/L	0.010	21	59	86	7	KED
	Zn	**67**	**-0.042**	ug/L	0.010	24	13	8	13	KED
	As	**75**	**0.003**	ug/L	0.005	182	3	3	43	KED
	Se	**78**	**0.024**	ug/L	0.135	566	11	10	43	KED
	Y	**89**		ug/L			967000	906718	0	Standard
	Kr	**83**		ug/L			64	56	1	Standard
>	**In-1**	**115**		ug/L			29935	26591	0	KED
	Cd	**111**	**0.001**	ug/L	0.003	386	2	2	43	KED
	Cd	**114**	**0.003**	ug/L	0.003	92	1	4	70	KED
>	**In**	**115**		ug/L			1886335	1755406	1	Standard
	Ag	**107**	**0.003**	ug/L	0.000	12	64	138	6	Standard
	Sb	**121**	**0.036**	ug/L	0.001	3	64	1006	3	Standard
	Sb	**123**	**0.039**	ug/L	0.001	1	54	787	2	Standard
	Ba	**135**	**0.011**	ug/L	0.001	8	46	115	6	Standard
	Ba	**137**	**0.010**	ug/L	0.000	4	88	195	2	Standard
>	**Tb**	**159**		ug/L			2858511	2791581	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	5	73	176	3	Standard
	Pb	**208**	**0.001**	ug/L	0.000	28	373	539	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:23:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L				1174653	1	Standard
	Be	**9**		ug/L				13	61	Standard
	C	**13**		ug/L				30879	0	Standard
	Cl	**37**		ug/L				8137590	0	Standard
>	**Sc**	**45**		ug/L				1506324	2	Standard
	V	**51**		ug/L				7630	1	Standard
	V-1	**51**		ug/L				137	13	Standard
	Cr	**52**		ug/L				22519	1	Standard
	Cr	**53**		ug/L				148	4	Standard
	Mn	**55**		ug/L				1780	3	Standard
>	**Ge**	**72**		ug/L				97794	0	KED
	Ni	**60**		ug/L				15	72	KED
	Ni	**62**		ug/L				2	43	KED
	Cu	**63**		ug/L				99	4	KED
	Cu	**65**		ug/L				53	7	KED
	Zn	**66**		ug/L				300	8	KED
	Zn	**67**		ug/L				50	21	KED
	As	**75**		ug/L				4	37	KED
	Se	**78**		ug/L				11	31	KED
	Y	**89**		ug/L				893628	0	Standard
	Kr	**83**		ug/L				62	9	Standard
>	**In-1**	**115**		ug/L				27117	1	KED
	Cd	**111**		ug/L				3	69	KED
	Cd	**114**		ug/L				3	137	KED
>	**In**	**115**		ug/L				1764814	0	Standard
	Ag	**107**		ug/L				70	25	Standard
	Sb	**121**		ug/L				359	11	Standard
	Sb	**123**		ug/L				300	11	Standard
	Ba	**135**		ug/L				33	22	Standard
	Ba	**137**		ug/L				55	17	Standard
>	**Tb**	**159**		ug/L				2798401	0	Standard
	Tl	**205**		ug/L				80	13	Standard
	Pb	**208**		ug/L				353	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:28:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1121144	0	Standard
	Be	**9**	**48.429**	ug/L	0.612	1	13	272045	1	Standard
	C	**13**		ug/L			30879	29625	0	Standard
	Cl	**37**		ug/L			8137590	8654128	0	Standard
>	**Sc**	**45**		ug/L			1506324	1442175	2	Standard
	V	**51**	**47.060**	ug/L	0.539	1	7630	1412617	1	Standard
	V-1	**51**	**47.700**	ug/L	0.652	1	137	1421320	1	Standard
	Cr	**52**	**47.378**	ug/L	0.684	1	22519	1218206	1	Standard
	Cr	**53**	**49.531**	ug/L	0.974	1	148	140440	1	Standard
	Mn	**55**	**48.736**	ug/L	0.300	0	1780	1907041	2	Standard
>	**Ge**	**72**		ug/L			97794	92251	0	KED
	Ni	**60**	**49.407**	ug/L	0.515	1	15	74351	1	KED
	Ni	**62**	**50.032**	ug/L	0.646	1	2	12322	1	KED
	Cu	**63**	**50.353**	ug/L	0.740	1	99	220376	1	KED
	Cu	**65**	**49.734**	ug/L	0.339	0	53	109781	0	KED
	Zn	**66**	**50.951**	ug/L	0.726	1	300	32674	1	KED
	Zn	**67**	**50.318**	ug/L	1.907	3	50	5309	3	KED
	As	**75**	**49.734**	ug/L	0.576	1	4	15204	1	KED
	Se	**78**	**48.920**	ug/L	1.476	3	11	1675	3	KED
	Y	**89**		ug/L			893628	866858	1	Standard
	Kr	**83**		ug/L			62	69	16	Standard
>	**In-1**	**115**		ug/L			27117	25252	1	KED
	Cd	**111**	**50.900**	ug/L	1.115	2	3	17672	1	KED
	Cd	**114**	**50.899**	ug/L	0.820	1	3	45673	0	KED
>	**In**	**115**		ug/L			1764814	1687610	0	Standard
	Ag	**107**	**50.775**	ug/L	0.634	1	70	1190648	1	Standard
	Sb	**121**	**46.903**	ug/L	0.181	0	359	1170111	0	Standard
	Sb	**123**	**48.795**	ug/L	0.275	0	300	881523	0	Standard
	Ba	**135**	**45.752**	ug/L	0.598	1	33	302804	0	Standard
	Ba	**137**	**46.129**	ug/L	0.458	0	55	511684	0	Standard
>	**Tb**	**159**		ug/L			2798401	2783223	1	Standard
	Tl	**205**	**50.907**	ug/L	0.588	1	80	4537916	0	Standard
	Pb	**208**	**48.879**	ug/L	0.254	0	353	5881490	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:35:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1159927	1	Standard
	Be	**9**	**0.000**	ug/L	0.000	348	13	14	19	Standard
	C	**13**		ug/L			30879	30459	0	Standard
	Cl	**37**		ug/L			8137590	8431802	0	Standard
>	**Sc**	**45**		ug/L			1506324	1470012	1	Standard
	V	**51**	**0.008**	ug/L	0.004	58	7630	7675	0	Standard
	V-1	**51**	**0.001**	ug/L	0.001	188	137	153	23	Standard
	Cr	**52**	**0.021**	ug/L	0.021	102	22519	22508	0	Standard
	Cr	**53**	**-0.002**	ug/L	0.008	344	148	138	14	Standard
	Mn	**55**	**-0.015**	ug/L	0.002	12	1780	1143	5	Standard
>	**Ge**	**72**		ug/L			97794	95080	1	KED
	Ni	**60**	**-0.001**	ug/L	0.002	222	15	13	20	KED
	Ni	**62**	**0.010**	ug/L	0.011	110	2	5	57	KED
	Cu	**63**	**0.002**	ug/L	0.001	59	99	107	5	KED
	Cu	**65**	**-0.004**	ug/L	0.003	72	53	43	11	KED
	Zn	**66**	**-0.180**	ug/L	0.019	10	300	174	8	KED
	Zn	**67**	**-0.163**	ug/L	0.049	29	50	31	15	KED
	As	**75**	**-0.001**	ug/L	0.003	486	4	3	25	KED
	Se	**78**	**0.040**	ug/L	0.133	333	11	12	37	KED
	Y	**89**		ug/L			893628	886654	1	Standard
	Kr	**83**		ug/L			62	69	15	Standard
>	**In-1**	**115**		ug/L			27117	26518	2	KED
	Cd	**111**	**0.000**	ug/L	0.004	2288	3	3	45	KED
	Cd	**114**	**-0.001**	ug/L	0.002	193	3	2	90	KED
>	**In**	**115**		ug/L			1764814	1728569	0	Standard
	Ag	**107**	**0.003**	ug/L	0.001	32	70	141	16	Standard
	Sb	**121**	**0.031**	ug/L	0.001	2	359	1154	1	Standard
	Sb	**123**	**0.032**	ug/L	0.001	4	300	883	2	Standard
	Ba	**135**	**0.000**	ug/L	0.001	174	33	35	12	Standard
	Ba	**137**	**0.001**	ug/L	0.001	75	55	69	15	Standard
>	**Tb**	**159**		ug/L			2798401	2771127	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	23	80	235	15	Standard
	Pb	**208**	**0.001**	ug/L	0.001	109	353	416	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:42:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1173074	2	Standard
		9	-	ug/L	0.000	111	13	12	18	Standard
	C	**13**		ug/L			30879	55201	0	Standard
	Cl	**37**		ug/L			8137590	8344193	0	Standard
>	**Sc**	**45**		ug/L			1506324	1491634	1	Standard
	V	**51**	**0.023**	ug/L	0.005	22	7630	8278	2	Standard
	V-1	**51**	**0.004**	ug/L	0.000	9	137	257	4	Standard
		52		ug/L	0.017	18	22519	24695	2	Standard
	Cr	**53**	**0.027**	ug/L	0.004	13	148	225	3	Standard
	Mn	**55**	**0.032**	ug/L	0.001	3	1780	3038	1	Standard
>	**Ge**	**72**		ug/L			97794	95411	0	KED
		60		ug/L	0.004	91	15	22	27	KED
	Ni	**62**	**0.008**	ug/L	0.004	55	2	4	24	KED
		63		ug/L	0.005	15	99	235	9	KED
	Cu	**65**	**0.030**	ug/L	0.011	35	53	119	20	KED
		66		ug/L	0.056	48	300	368	9	KED
	Zn	**67**	**-0.053**	ug/L	0.045	84	50	43	11	KED
		75		ug/L	0.003	318	4	4	19	KED
		78		ug/L	0.087	155	11	12	23	KED
	Y	**89**		ug/L			893628	906671	1	Standard
	Kr	**83**		ug/L			62	52	20	Standard
>	**In-1**	**115**		ug/L			27117	26257	1	KED
		111		ug/L	0.002	138	3	3	15	KED
	Cd	**114**	**-0.003**	ug/L	0.001	31	3	0	223	KED
>	**In**	**115**		ug/L			1764814	1756949	0	Standard
		107		ug/L	0.001	55	70	100	17	Standard
		121		ug/L	0.001	14	359	529	4	Standard
	Sb	**123**	**0.005**	ug/L	0.002	39	300	386	8	Standard
	Ba	**135**	**0.016**	ug/L	0.002	9	33	142	6	Standard
	Ba	**137**	**0.014**	ug/L	0.002	14	55	219	11	Standard
>	**Tb**	**159**		ug/L			2798401	2834747	0	Standard
		205		ug/L	0.000	28	80	126	10	Standard
		208		ug/L	0.000	6	353	915	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:47:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1164188	1	Standard
		9		ug/L	0.460	1	13	144642	0	Standard
	C	**13**		ug/L			30879	53936	0	Standard
	Cl	**37**		ug/L			8137590	8326898	0	Standard
>	**Sc**	**45**		ug/L			1506324	1475536	1	Standard
	V	**51**	**24.511**	ug/L	0.553	2	7630	756309	0	Standard
	V-1	**51**	**24.766**	ug/L	0.466	1	137	755081	0	Standard
		52		ug/L	0.337	1	22519	674672	0	Standard
	Cr	**53**	**26.113**	ug/L	0.175	0	148	75845	1	Standard
	Mn	**55**	**26.030**	ug/L	0.477	1	1780	1042785	0	Standard
>	**Ge**	**72**		ug/L			97794	93699	1	KED
		60		ug/L	0.223	0	15	40613	1	KED
	Ni	**62**	**26.625**	ug/L	0.331	1	2	6661	0	KED
		63		ug/L	0.255	0	99	122617	0	KED
	Cu	**65**	**27.594**	ug/L	0.059	0	53	61890	1	KED
		66		ug/L	0.973	1	300	54837	0	KED
	Zn	**67**	**80.210**	ug/L	2.070	2	50	8567	1	KED
		75		ug/L	0.082	0	4	7911	0	KED
		78		ug/L	0.706	0	11	2753	0	KED
	Y	**89**		ug/L			893628	890499	1	Standard
	Kr	**83**		ug/L			62	63	17	Standard
>	**In-1**	**115**		ug/L			27117	25143	2	KED
		111		ug/L	0.855	3	3	9235	1	KED
	Cd	**114**	**26.715**	ug/L	0.414	1	3	23872	2	KED
>	**In**	**115**		ug/L			1764814	1723651	0	Standard
		107		ug/L	0.297	1	70	655933	1	Standard
		121		ug/L	0.216	0	359	640212	0	Standard
	Sb	**123**	**26.034**	ug/L	0.205	0	300	480531	1	Standard
	Ba	**135**	**23.538**	ug/L	0.208	0	33	159134	0	Standard
	Ba	**137**	**23.904**	ug/L	0.414	1	55	270838	1	Standard
>	**Tb**	**159**		ug/L			2798401	2790346	1	Standard
		205		ug/L	0.189	0	80	2533562	0	Standard
		208		ug/L	0.434	1	353	3054229	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:52:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1144059	2	Standard
		9		ug/L	0.013	3	13	1941	1	Standard
	C	**13**		ug/L			30879	54965	0	Standard
	Cl	**37**		ug/L			8137590	8302608	0	Standard
>	**Sc**	**45**		ug/L			1506324	1672825	1	Standard
	V	**51**	**44.413**	ug/L	0.407	0	7630	1546997	0	Standard
	V-1	**51**	**44.922**	ug/L	0.435	0	137	1552832	0	Standard
		52		ug/L	0.347	0	22519	1391879	0	Standard
	Cr	**53**	**48.377**	ug/L	0.541	1	148	159148	0	Standard
	Mn	**55**	**463.552**	ug/L	5.021	1	1780	21022777	0	Standard
>	**Ge**	**72**		ug/L			97794	90825	0	KED
		60		ug/L	0.935	1	15	101125	0	KED
	Ni	**62**	**68.669**	ug/L	0.951	1	2	16649	0	KED
		63		ug/L	0.424	1	99	152492	0	KED
	Cu	**65**	**35.398**	ug/L	0.412	1	53	76937	0	KED
		66		ug/L	0.435	0	300	41747	0	KED
	Zn	**67**	**67.185**	ug/L	1.207	1	50	6963	1	KED
		75		ug/L	0.091	3	4	777	3	KED
		78		ug/L	0.047	6	11	36	5	KED
	Y	**89**		ug/L			893628	1289322	1	Standard
	Kr	**83**		ug/L			62	155	8	Standard
>	**In-1**	**115**		ug/L			27117	24106	2	KED
		111		ug/L	0.008	7	3	40	7	KED
	Cd	**114**	**0.115**	ug/L	0.014	11	3	101	9	KED
>	**In**	**115**		ug/L			1764814	1690563	0	Standard
		107		ug/L	0.005	5	70	2134	5	Standard
		121		ug/L	0.004	112	359	424	21	Standard
	Sb	**123**	**0.004**	ug/L	0.004	98	300	360	20	Standard
	Ba	**135**	**106.734**	ug/L	1.473	1	33	707613	0	Standard
	Ba	**137**	**108.289**	ug/L	1.755	1	55	1203199	0	Standard
>	**Tb**	**159**		ug/L			2798401	3001022	0	Standard
		205		ug/L	0.005	5	80	8683	5	Standard
		208		ug/L	0.033	0	353	543317	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:58:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1122449	3	Standard
		9		ug/L	0.006	3	13	1038	4	Standard
	C	**13**		ug/L			30879	59758	1	Standard
	Cl	**37**		ug/L			8137590	8160543	1	Standard
>	**Sc**	**45**		ug/L			1506324	1540994	0	Standard
	V	**51**	**34.783**	ug/L	0.545	1	7630	1117909	2	Standard
	V-1	**51**	**34.977**	ug/L	0.500	1	137	1113941	1	Standard
		52		ug/L	0.199	1	22519	310035	2	Standard
	Cr	**53**	**11.103**	ug/L	0.103	0	148	33765	0	Standard
	Mn	**55**	**91.007**	ug/L	0.877	0	1780	3803804	1	Standard
>	**Ge**	**72**		ug/L			97794	92715	0	KED
		60		ug/L	0.090	1	15	12725	0	KED
	Ni	**62**	**8.357**	ug/L	0.175	2	2	2070	1	KED
		63		ug/L	0.110	0	99	76689	0	KED
	Cu	**65**	**17.537**	ug/L	0.470	2	53	38933	2	KED
		66		ug/L	0.326	1	300	13330	1	KED
	Zn	**67**	**20.535**	ug/L	0.558	2	50	2205	2	KED
		75		ug/L	0.065	1	4	1031	1	KED
		78		ug/L	0.135	18	11	35	13	KED
	Y	**89**		ug/L			893628	1174829	1	Standard
	Kr	**83**		ug/L			62	90	22	Standard
>	**In-1**	**115**		ug/L			27117	24859	0	KED
		111		ug/L	0.015	87	3	8	59	KED
	Cd	**114**	**0.028**	ug/L	0.008	27	3	28	24	KED
>	**In**	**115**		ug/L			1764814	1710982	0	Standard
		107		ug/L	0.002	4	70	1284	4	Standard
		121		ug/L	0.000	24	359	306	3	Standard
	Sb	**123**	**-0.003**	ug/L	0.000	6	300	236	1	Standard
	Ba	**135**	**25.838**	ug/L	0.308	1	33	173397	0	Standard
	Ba	**137**	**25.958**	ug/L	0.250	0	55	291976	1	Standard
>	**Tb**	**159**		ug/L			2798401	2922198	1	Standard
		205		ug/L	0.001	2	80	4251	1	Standard
		208		ug/L	0.019	0	353	284991	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:05:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1130066	1	Standard
		9		ug/L	0.003	1	13	1215	1	Standard
	C	**13**		ug/L			30879	54863	0	Standard
	Cl	**37**		ug/L			8137590	8250032	0	Standard
>	**Sc**	**45**		ug/L			1506324	1583055	0	Standard
	V	**51**	**36.978**	ug/L	0.366	0	7630	1220322	0	Standard
	V-1	**51**	**37.486**	ug/L	0.371	0	137	1226350	0	Standard
		52		ug/L	0.282	0	22519	960550	0	Standard
	Cr	**53**	**35.469**	ug/L	0.400	1	148	110469	0	Standard
	Mn	**55**	**313.135**	ug/L	5.283	1	1780	13441143	1	Standard
>	**Ge**	**72**		ug/L			97794	92054	0	KED
		60		ug/L	0.512	1	15	75798	0	KED
	Ni	**62**	**49.826**	ug/L	0.447	0	2	12245	0	KED
		63		ug/L	0.115	0	99	96281	0	KED
	Cu	**65**	**21.782**	ug/L	0.226	1	53	48005	0	KED
		66		ug/L	0.378	0	300	26640	0	KED
	Zn	**67**	**42.374**	ug/L	0.179	0	50	4469	0	KED
		75		ug/L	0.064	1	4	1131	2	KED
		78		ug/L	0.109	19	11	29	12	KED
	Y	**89**		ug/L			893628	1179782	0	Standard
	Kr	**83**		ug/L			62	135	10	Standard
>	**In-1**	**115**		ug/L			27117	24957	0	KED
		111		ug/L	0.022	26	3	31	23	KED
	Cd	**114**	**0.074**	ug/L	0.014	19	3	69	17	KED
>	**In**	**115**		ug/L			1764814	1694298	0	Standard
		107		ug/L	0.002	2	70	1322	2	Standard
		121	-	ug/L	0.000	18	359	278	4	Standard
	Sb	**123**	**-0.004**	ug/L	0.000	1	300	218	1	Standard
	Ba	**135**	**70.850**	ug/L	0.878	1	33	470766	0	Standard
	Ba	**137**	**71.679**	ug/L	1.027	1	55	798210	0	Standard
>	**Tb**	**159**		ug/L			2798401	2976092	0	Standard
		205		ug/L	0.001	1	80	5518	1	Standard
		208		ug/L	0.037	1	353	371976	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:10:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1143607	1	Standard
		9		ug/L	0.005	6	13	445	5	Standard
	C	**13**		ug/L			30879	57357	1	Standard
	Cl	**37**		ug/L			8137590	8132756	1	Standard
>	**Sc**	**45**		ug/L			1506324	1523739	1	Standard
	V	**51**	**24.802**	ug/L	0.374	1	7630	790353	1	Standard
	V-1	**51**	**24.922**	ug/L	0.386	1	137	784821	2	Standard
		52		ug/L	0.166	2	22519	189977	0	Standard
	Cr	**53**	**6.530**	ug/L	0.119	1	148	19698	1	Standard
	Mn	**55**	**79.015**	ug/L	1.334	1	1780	3265552	1	Standard
>	**Ge**	**72**		ug/L			97794	93108	1	KED
		60		ug/L	0.058	1	15	7008	1	KED
	Ni	**62**	**4.702**	ug/L	0.158	3	2	1170	2	KED
		63		ug/L	0.085	1	99	37035	1	KED
	Cu	**65**	**8.323**	ug/L	0.084	1	53	18584	0	KED
		66		ug/L	0.252	1	300	9999	0	KED
	Zn	**67**	**15.482**	ug/L	0.146	0	50	1682	1	KED
		75		ug/L	0.039	2	4	429	1	KED
		78		ug/L	0.085	23	11	23	13	KED
	Y	**89**		ug/L			893628	1050900	1	Standard
	Kr	**83**		ug/L			62	70	12	Standard
>	**In-1**	**115**		ug/L			27117	25770	1	KED
		111		ug/L	0.013	134	3	6	69	KED
	Cd	**114**	**0.016**	ug/L	0.007	39	3	18	33	KED
>	**In**	**115**		ug/L			1764814	1735634	0	Standard
		107		ug/L	0.001	1	70	763	1	Standard
		121		ug/L	0.001	27	359	258	10	Standard
	Sb	**123**	**-0.004**	ug/L	0.001	16	300	215	6	Standard
	Ba	**135**	**13.063**	ug/L	0.100	0	33	88943	0	Standard
	Ba	**137**	**13.067**	ug/L	0.065	0	55	149118	0	Standard
>	**Tb**	**159**		ug/L			2798401	2906549	1	Standard
		205		ug/L	0.001	2	80	2150	2	Standard
		208		ug/L	0.009	0	353	125126	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:15:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1140434	1	Standard
		9		ug/L	0.020	12	13	894	13	Standard
	C	**13**		ug/L			30879	63407	1	Standard
	Cl	**37**		ug/L			8137590	8138472	1	Standard
>	**Sc**	**45**		ug/L			1506324	1586980	1	Standard
	V	**51**	**29.405**	ug/L	0.215	0	7630	974420	0	Standard
	V-1	**51**	**29.575**	ug/L	0.203	0	137	969942	0	Standard
		52		ug/L	0.140	1	22519	303521	0	Standard
	Cr	**53**	**10.491**	ug/L	0.099	0	148	32866	0	Standard
	Mn	**55**	**66.558**	ug/L	0.433	0	1780	2865619	1	Standard
>	**Ge**	**72**		ug/L			97794	93200	1	KED
		60		ug/L	0.110	1	15	10338	0	KED
	Ni	**62**	**6.899**	ug/L	0.181	2	2	1718	2	KED
		63		ug/L	0.182	0	99	84035	0	KED
	Cu	**65**	**19.094**	ug/L	0.118	0	53	42612	1	KED
		66		ug/L	0.504	2	300	11542	2	KED
	Zn	**67**	**17.450**	ug/L	0.062	0	50	1891	1	KED
		75		ug/L	0.072	1	4	1178	1	KED
		78		ug/L	0.224	36	11	31	25	KED
	Y	**89**		ug/L			893628	1179388	1	Standard
	Kr	**83**		ug/L			62	75	11	Standard
>	**In-1**	**115**		ug/L			27117	25145	0	KED
		111		ug/L	0.004	15	3	11	12	KED
	Cd	**114**	**0.020**	ug/L	0.008	43	3	20	36	KED
>	**In**	**115**		ug/L			1764814	1712560	1	Standard
		107		ug/L	0.010	16	70	1537	16	Standard
		121		ug/L	0.010	3962	359	356	70	Standard
	Sb	**123**	**-0.000**	ug/L	0.010	2217	300	284	65	Standard
	Ba	**135**	**24.638**	ug/L	0.601	2	33	165451	0	Standard
	Ba	**137**	**24.799**	ug/L	0.304	1	55	279155	1	Standard
>	**Tb**	**159**		ug/L			2798401	2939536	0	Standard
		205		ug/L	0.011	18	80	5635	19	Standard
		208		ug/L	0.013	0	353	297540	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:20:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1118044	3	Standard
		9		ug/L	0.010	12	13	474	11	Standard
	C	**13**		ug/L			30879	56411	0	Standard
	Cl	**37**		ug/L			8137590	8238364	1	Standard
>	**Sc**	**45**		ug/L			1506324	1523767	0	Standard
	V	**51**	**27.584**	ug/L	0.270	0	7630	878168	0	Standard
	V-1	**51**	**27.715**	ug/L	0.302	1	137	872740	0	Standard
		52		ug/L	0.083	1	22519	218876	1	Standard
	Cr	**53**	**7.632**	ug/L	0.099	1	148	22997	0	Standard
	Mn	**55**	**78.603**	ug/L	0.571	0	1780	3248834	0	Standard
>	**Ge**	**72**		ug/L			97794	91845	0	KED
		60		ug/L	0.144	2	15	8838	2	KED
	Ni	**62**	**5.813**	ug/L	0.242	4	2	1427	3	KED
		63		ug/L	0.031	0	99	33341	0	KED
	Cu	**65**	**7.573**	ug/L	0.091	1	53	16684	0	KED
		66		ug/L	0.471	2	300	12306	1	KED
	Zn	**67**	**18.044**	ug/L	0.093	0	50	1925	0	KED
		75		ug/L	0.044	2	4	464	2	KED
		78		ug/L	0.038	9	11	23	5	KED
	Y	**89**		ug/L			893628	1089572	0	Standard
	Kr	**83**		ug/L			62	78	13	Standard
>	**In-1**	**115**		ug/L			27117	24701	1	KED
		111		ug/L	0.010	70	3	7	45	KED
	Cd	**114**	**0.017**	ug/L	0.001	8	3	17	6	KED
>	**In**	**115**		ug/L			1764814	1711035	0	Standard
		107		ug/L	0.002	8	70	723	8	Standard
		121		ug/L	0.001	11	359	200	8	Standard
	Sb	**123**	**-0.009**	ug/L	0.001	8	300	130	10	Standard
	Ba	**135**	**14.552**	ug/L	0.062	0	33	97676	0	Standard
	Ba	**137**	**14.663**	ug/L	0.143	0	55	164950	1	Standard
>	**Tb**	**159**		ug/L			2798401	2901871	1	Standard
		205		ug/L	0.001	4	80	2435	3	Standard
		208		ug/L	0.014	0	353	243609	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:25:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1109949	2	Standard
		9		ug/L	0.006	6	13	497	7	Standard
	C	**13**		ug/L			30879	57474	0	Standard
	Cl	**37**		ug/L			8137590	8176633	0	Standard
>	**Sc**	**45**		ug/L			1506324	1492710	0	Standard
	V	**51**	**28.482**	ug/L	0.545	1	7630	888058	1	Standard
	V-1	**51**	**28.655**	ug/L	0.529	1	137	883993	1	Standard
		52		ug/L	0.118	1	22519	246132	1	Standard
	Cr	**53**	**8.990**	ug/L	0.062	0	148	26513	0	Standard
	Mn	**55**	**97.133**	ug/L	1.577	1	1780	3932605	1	Standard
>	**Ge**	**72**		ug/L			97794	91689	0	KED
		60		ug/L	0.054	0	15	8414	0	KED
	Ni	**62**	**5.541**	ug/L	0.167	3	2	1358	3	KED
		63		ug/L	0.163	1	99	40067	1	KED
	Cu	**65**	**9.143**	ug/L	0.204	2	53	20096	1	KED
		66		ug/L	0.382	2	300	11599	1	KED
	Zn	**67**	**17.214**	ug/L	0.263	1	50	1836	1	KED
		75		ug/L	0.051	3	4	450	3	KED
		78		ug/L	0.075	19	11	23	10	KED
	Y	**89**		ug/L			893628	1082447	1	Standard
	Kr	**83**		ug/L			62	81	0	Standard
>	**In-1**	**115**		ug/L			27117	24627	1	KED
		111		ug/L	0.006	49	3	6	28	KED
	Cd	**114**	**0.017**	ug/L	0.008	46	3	17	36	KED
>	**In**	**115**		ug/L			1764814	1715691	0	Standard
		107		ug/L	0.001	3	70	825	2	Standard
		121		ug/L	0.000	16	359	284	3	Standard
	Sb	**123**	**-0.004**	ug/L	0.000	9	300	223	2	Standard
	Ba	**135**	**17.166**	ug/L	0.289	1	33	115523	1	Standard
	Ba	**137**	**17.315**	ug/L	0.191	1	55	195301	0	Standard
>	**Tb**	**159**		ug/L			2798401	2872144	0	Standard
		205		ug/L	0.001	3	80	2160	2	Standard
		208		ug/L	0.019	0	353	325893	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:32:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1107843	3	Standard
	Be	**9**	**-0.001**	ug/L	0.000	52	13	8	35	Standard
	C	**13**		ug/L			30879	30643	0	Standard
	Cl	**37**		ug/L			8137590	7903626	0	Standard
>	**Sc**	**45**		ug/L			1506324	1423925	0	Standard
	V	**51**	**-0.007**	ug/L	0.004	48	7630	6997	1	Standard
	V-1	**51**	**-0.000**	ug/L	0.000	88	137	125	4	Standard
	Cr	**52**	**-0.021**	ug/L	0.004	21	22519	20762	0	Standard
	Cr	**53**	**0.003**	ug/L	0.007	255	148	148	13	Standard
	Mn	**55**	**-0.021**	ug/L	0.001	5	1780	867	4	Standard
>	**Ge**	**72**		ug/L			97794	91282	1	KED
	Ni	**60**	**-0.000**	ug/L	0.003	1721	15	14	27	KED
	Ni	**62**	**0.022**	ug/L	0.016	73	2	7	50	KED
	Cu	**63**	**0.002**	ug/L	0.004	165	99	103	17	KED
	Cu	**65**	**0.003**	ug/L	0.002	72	53	55	6	KED
	Zn	**66**	**-0.338**	ug/L	0.011	3	300	68	11	KED
	Zn	**67**	**-0.354**	ug/L	0.056	15	50	10	57	KED
	As	**75**	**0.005**	ug/L	0.007	148	4	5	39	KED
	Se	**78**	**0.012**	ug/L	0.083	695	11	10	25	KED
	Y	**89**		ug/L			893628	867010	1	Standard
	Kr	**83**		ug/L			62	60	20	Standard
>	**In-1**	**115**		ug/L			27117	25181	1	KED
	Cd	**111**	**-0.002**	ug/L	0.006	269	3	2	89	KED
	Cd	**114**	**-0.002**	ug/L	0.002	116	3	1	120	KED
>	**In**	**115**		ug/L			1764814	1700245	0	Standard
	Ag	**107**	**-0.000**	ug/L	0.000	522	70	66	8	Standard
	Sb	**121**	**-0.009**	ug/L	0.001	10	359	116	20	Standard
	Sb	**123**	**-0.010**	ug/L	0.001	13	300	101	25	Standard
	Ba	**135**	**0.001**	ug/L	0.002	183	33	39	32	Standard
	Ba	**137**	**0.004**	ug/L	0.002	41	55	96	17	Standard
>	**Tb**	**159**		ug/L			2798401	2704121	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	59	80	71	5	Standard
	Pb	**208**	**0.006**	ug/L	0.001	10	353	1058	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:37:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1091967	3	Standard
	Be	**9**	**48.655**	ug/L	0.665	1	13	266145	2	Standard
	C	**13**		ug/L			30879	29638	1	Standard
	Cl	**37**		ug/L			8137590	8601566	0	Standard
>	**Sc**	**45**		ug/L			1506324	1410644	0	Standard
	V	**51**	**47.023**	ug/L	0.203	0	7630	1380911	0	Standard
	V-1	**51**	**47.636**	ug/L	0.364	0	137	1388710	1	Standard
	Cr	**52**	**47.503**	ug/L	0.353	0	22519	1194926	0	Standard
	Cr	**53**	**49.570**	ug/L	0.670	1	148	137520	1	Standard
	Mn	**55**	**49.034**	ug/L	0.446	0	1780	1876818	0	Standard
>	**Ge**	**72**		ug/L			97794	86674	4	KED
	Ni	**60**	**51.956**	ug/L	2.490	4	15	73349	0	KED
	Ni	**62**	**51.867**	ug/L	2.824	5	2	11982	0	KED
	Cu	**63**	**53.013**	ug/L	2.971	5	99	217599	0	KED
	Cu	**65**	**52.558**	ug/L	2.079	3	53	108865	1	KED
	Zn	**66**	**52.841**	ug/L	2.288	4	300	31786	1	KED
	Zn	**67**	**52.287**	ug/L	4.199	8	50	5169	3	KED
	As	**75**	**51.364**	ug/L	2.353	4	4	14732	0	KED
	Se	**78**	**51.601**	ug/L	1.913	3	11	1657	2	KED
	Y	**89**		ug/L			893628	865818	1	Standard
	Kr	**83**		ug/L			62	69	13	Standard
>	**In-1**	**115**		ug/L			27117	23822	1	KED
	Cd	**111**	**52.498**	ug/L	0.770	1	3	17195	0	KED
	Cd	**114**	**52.719**	ug/L	0.763	1	3	44630	1	KED
>	**In**	**115**		ug/L			1764814	1678794	0	Standard
	Ag	**107**	**49.699**	ug/L	0.492	0	70	1159253	1	Standard
	Sb	**121**	**47.641**	ug/L	0.319	0	359	1182333	0	Standard
	Sb	**123**	**49.625**	ug/L	0.239	0	300	891849	0	Standard
	Ba	**135**	**45.706**	ug/L	0.569	1	33	300949	1	Standard
	Ba	**137**	**45.991**	ug/L	0.498	1	55	507519	1	Standard
>	**Tb**	**159**		ug/L			2798401	2782198	1	Standard
	Tl	**205**	**51.549**	ug/L	0.326	0	80	4593580	0	Standard
	Pb	**208**	**49.251**	ug/L	0.692	1	353	5923669	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:44:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1119681	2	Standard
	Be	**9**	**-0.001**	ug/L	0.001	176	13	10	60	Standard
	C	**13**		ug/L			30879	30693	0	Standard
	Cl	**37**		ug/L			8137590	8131947	0	Standard
>	**Sc**	**45**		ug/L			1506324	1430625	0	Standard
	V	**51**	**0.010**	ug/L	0.003	29	7630	7546	1	Standard
	V-1	**51**	**0.000**	ug/L	0.000	23	137	139	1	Standard
	Cr	**52**	**0.036**	ug/L	0.012	33	22519	22296	1	Standard
	Cr	**53**	**0.003**	ug/L	0.003	92	148	150	5	Standard
	Mn	**55**	**-0.013**	ug/L	0.001	9	1780	1194	4	Standard
>	**Ge**	**72**		ug/L			97794	91069	1	KED
	Ni	**60**	**0.001**	ug/L	0.002	136	15	16	13	KED
	Ni	**62**	**0.019**	ug/L	0.009	46	2	6	31	KED
	Cu	**63**	**0.005**	ug/L	0.007	137	99	115	27	KED
	Cu	**65**	**0.006**	ug/L	0.003	43	53	62	8	KED
	Zn	**66**	**-0.146**	ug/L	0.040	27	300	188	14	KED
	Zn	**67**	**-0.138**	ug/L	0.114	82	50	32	35	KED
	As	**75**	**-0.003**	ug/L	0.001	32	4	3	9	KED
	Se	**78**	**0.106**	ug/L	0.064	59	11	13	16	KED
	Y	**89**		ug/L			893628	874874	1	Standard
	Kr	**83**		ug/L			62	60	8	Standard
>	**In-1**	**115**		ug/L			27117	24779	1	KED
	Cd	**111**	**-0.001**	ug/L	0.004	401	3	2	57	KED
	Cd	**114**	**0.001**	ug/L	0.006	568	3	4	114	KED
>	**In**	**115**		ug/L			1764814	1699828	1	Standard
	Ag	**107**	**0.002**	ug/L	0.000	16	70	115	7	Standard
	Sb	**121**	**0.026**	ug/L	0.001	2	359	1007	2	Standard
	Sb	**123**	**0.025**	ug/L	0.004	15	300	742	8	Standard
	Ba	**135**	**0.010**	ug/L	0.003	26	33	97	16	Standard
	Ba	**137**	**0.010**	ug/L	0.001	10	55	160	5	Standard
>	**Tb**	**159**		ug/L			2798401	2731362	1	Standard
	Tl	**205**	**0.002**	ug/L	0.000	21	80	225	13	Standard
	Pb	**208**	**0.002**	ug/L	0.000	17	353	600	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:49:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1127413	1	Standard
		9		ug/L	0.017	4	13	2229	5	Standard
	C	**13**		ug/L			30879	60661	0	Standard
	Cl	**37**		ug/L			8137590	8131213	1	Standard
>	**Sc**	**45**		ug/L			1506324	1540433	1	Standard
	V	**51**	**37.291**	ug/L	0.054	0	7630	1197475	1	Standard
	V-1	**51**	**37.525**	ug/L	0.026	0	137	1194619	1	Standard
		52		ug/L	0.203	1	22519	327742	1	Standard
	Cr	**53**	**11.887**	ug/L	0.220	1	148	36121	0	Standard
	Mn	**55**	**85.513**	ug/L	1.753	2	1780	3572762	1	Standard
>	**Ge**	**72**		ug/L			97794	91228	0	KED
		60		ug/L	0.265	1	15	33297	1	KED
	Ni	**62**	**22.586**	ug/L	0.469	2	2	5502	2	KED
		63		ug/L	0.115	0	99	74641	1	KED
	Cu	**65**	**17.386**	ug/L	0.042	0	53	37983	0	KED
		66		ug/L	0.716	1	300	35648	0	KED
	Zn	**67**	**53.814**	ug/L	0.712	1	50	5612	1	KED
		75		ug/L	0.049	1	4	892	1	KED
		78		ug/L	0.069	6	11	43	4	KED
	Y	**89**		ug/L			893628	1436232	1	Standard
	Kr	**83**		ug/L			62	103	8	Standard
>	**In-1**	**115**		ug/L			27117	24452	1	KED
		111		ug/L	0.018	27	3	24	25	KED
	Cd	**114**	**0.060**	ug/L	0.007	11	3	55	11	KED
>	**In**	**115**		ug/L			1764814	1697306	1	Standard
		107		ug/L	0.001	2	70	1246	2	Standard
		121		ug/L	0.000	3	359	555	1	Standard
	Sb	**123**	**0.007**	ug/L	0.001	11	300	416	4	Standard
	Ba	**135**	**23.436**	ug/L	0.173	0	33	156035	1	Standard
	Ba	**137**	**23.678**	ug/L	0.267	1	55	264171	0	Standard
>	**Tb**	**159**		ug/L			2798401	2946675	0	Standard
		205		ug/L	0.001	2	80	4408	3	Standard
		208		ug/L	0.028	1	353	301391	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:54:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1129525	2	Standard
		9		ug/L	0.069	47	13	838	47	Standard
	C	**13**		ug/L			30879	53748	1	Standard
	Cl	**37**		ug/L			8137590	8160058	1	Standard
>	**Sc**	**45**		ug/L			1506324	1536253	1	Standard
	V	**51**	**28.690**	ug/L	0.399	1	7630	920539	1	Standard
	V-1	**51**	**28.848**	ug/L	0.364	1	137	915888	1	Standard
		52		ug/L	0.191	2	22519	253354	2	Standard
	Cr	**53**	**8.941**	ug/L	0.134	1	148	27141	2	Standard
	Mn	**55**	**86.530**	ug/L	0.957	1	1780	3605550	1	Standard
>	**Ge**	**72**		ug/L			97794	91587	0	KED
		60		ug/L	0.027	0	15	11287	1	KED
	Ni	**62**	**7.460**	ug/L	0.170	2	2	1826	2	KED
		63		ug/L	0.031	0	99	61092	0	KED
	Cu	**65**	**13.971**	ug/L	0.084	0	53	30653	1	KED
		66		ug/L	0.227	0	300	15943	0	KED
	Zn	**67**	**24.595**	ug/L	0.557	2	50	2600	2	KED
		75		ug/L	0.038	2	4	556	2	KED
		78		ug/L	0.057	10	11	28	6	KED
	Y	**89**		ug/L			893628	1128433	2	Standard
	Kr	**83**		ug/L			62	97	11	Standard
>	**In-1**	**115**		ug/L			27117	18961	26	KED
	Cd	**111**	**0.046**	ug/L	0.028	60	3	13	32	KED
	Cd	**114**	**0.049**	ug/L	0.014	27	3	34	14	KED
>	**In**	**115**		ug/L			1764814	1725241	1	Standard
		107		ug/L	0.068	86	70	1951	85	Standard
		121		ug/L	0.071	158	359	1508	122	Standard
	Sb	**123**	**0.045**	ug/L	0.072	160	300	1138	120	Standard
	Ba	**135**	**16.761**	ug/L	0.301	1	33	113408	0	Standard
	Ba	**137**	**16.720**	ug/L	0.104	0	55	189633	1	Standard
>	**Tb**	**159**		ug/L			2798401	2935546	0	Standard
		205		ug/L	0.067	97	80	6563	96	Standard
		208		ug/L	0.065	1	353	486023	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:59:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1144826	1	Standard
		9		ug/L	0.002	2	13	535	3	Standard
	C	**13**		ug/L			30879	52430	0	Standard
	Cl	**37**		ug/L			8137590	8146216	0	Standard
>	**Sc**	**45**		ug/L			1506324	1525171	1	Standard
	V	**51**	**23.199**	ug/L	0.049	0	7630	740488	1	Standard
	V-1	**51**	**23.318**	ug/L	0.079	0	137	734982	1	Standard
		52		ug/L	0.047	0	22519	212257	1	Standard
	Cr	**53**	**7.368**	ug/L	0.122	1	148	22224	0	Standard
	Mn	**55**	**66.728**	ug/L	0.208	0	1780	2760973	2	Standard
>	**Ge**	**72**		ug/L			97794	91439	0	KED
		60		ug/L	0.012	0	15	8751	0	KED
	Ni	**62**	**5.883**	ug/L	0.390	6	2	1438	6	KED
		63		ug/L	0.062	0	99	37131	0	KED
	Cu	**65**	**8.468**	ug/L	0.104	1	53	18569	1	KED
		66		ug/L	0.147	0	300	11531	0	KED
	Zn	**67**	**17.967**	ug/L	0.206	1	50	1909	0	KED
		75		ug/L	0.009	0	4	434	0	KED
		78		ug/L	0.008	2	11	21	1	KED
	Y	**89**		ug/L			893628	1085126	1	Standard
	Kr	**83**		ug/L			62	73	8	Standard
>	**In-1**	**115**		ug/L			27117	24665	0	KED
		111		ug/L	0.013	41	3	13	32	KED
	Cd	**114**	**0.030**	ug/L	0.008	27	3	29	24	KED
>	**In**	**115**		ug/L			1764814	1722521	2	Standard
		107		ug/L	0.001	3	70	755	4	Standard
		121		ug/L	0.002	184	359	374	9	Standard
	Sb	**123**	**-0.001**	ug/L	0.002	154	300	271	10	Standard
	Ba	**135**	**16.733**	ug/L	0.507	3	33	113002	0	Standard
	Ba	**137**	**16.837**	ug/L	0.422	2	55	190588	0	Standard
>	**Tb**	**159**		ug/L			2798401	2909876	0	Standard
		205		ug/L	0.000	1	80	2232	1	Standard
		208		ug/L	0.025	0	353	326988	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:04:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1109135	1	Standard
		9		ug/L	0.015	5	13	1700	3	Standard
	C	**13**		ug/L			30879	53318	0	Standard
	Cl	**37**		ug/L			8137590	8231252	0	Standard
>	**Sc**	**45**		ug/L			1506324	1626268	0	Standard
	V	**51**	**49.231**	ug/L	0.143	0	7630	1666337	0	Standard
	V-1	**51**	**49.761**	ug/L	0.210	0	137	1672322	0	Standard
		52		ug/L	0.551	1	22519	1228360	1	Standard
	Cr	**53**	**43.990**	ug/L	0.395	0	148	140718	1	Standard
	Mn	**55**	**456.916**	ug/L	2.722	0	1780	20147156	0	Standard
>	**Ge**	**72**		ug/L			97794	88658	0	KED
		60		ug/L	0.916	1	15	97997	1	KED
	Ni	**62**	**68.895**	ug/L	0.610	0	2	16307	1	KED
		63		ug/L	0.341	1	99	140295	0	KED
	Cu	**65**	**33.702**	ug/L	0.591	1	53	71505	1	KED
		66		ug/L	1.001	1	300	39292	1	KED
	Zn	**67**	**65.235**	ug/L	0.247	0	50	6602	0	KED
		75		ug/L	0.151	3	4	1418	2	KED
		78		ug/L	0.008	1	11	33	0	KED
	Y	**89**		ug/L			893628	1281814	0	Standard
	Kr	**83**		ug/L			62	147	2	Standard
>	**In-1**	**115**		ug/L			27117	23690	0	KED
		111		ug/L	0.015	7	3	70	7	KED
	Cd	**114**	**0.220**	ug/L	0.027	12	3	188	11	KED
>	**In**	**115**		ug/L			1764814	1668274	0	Standard
		107		ug/L	0.005	5	70	2039	4	Standard
		121		ug/L	0.001	25	359	276	4	Standard
	Sb	**123**	**-0.003**	ug/L	0.001	17	300	226	4	Standard
	Ba	**135**	**96.356**	ug/L	2.232	2	33	630351	1	Standard
	Ba	**137**	**98.177**	ug/L	2.011	2	55	1076437	1	Standard
>	**Tb**	**159**		ug/L			2798401	2998469	0	Standard
		205		ug/L	0.002	1	80	7753	1	Standard
		208		ug/L	0.058	1	353	745338	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:09:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1120011	1	Standard
		9		ug/L	0.001	1	13	624	2	Standard
	C	**13**		ug/L			30879	57531	0	Standard
	Cl	**37**		ug/L			8137590	8050320	0	Standard
>	**Sc**	**45**		ug/L			1506324	1511322	2	Standard
	V	**51**	**29.908**	ug/L	0.568	1	7630	943636	1	Standard
	V-1	**51**	**30.076**	ug/L	0.589	1	137	939262	1	Standard
		52		ug/L	0.064	0	22519	246306	1	Standard
	Cr	**53**	**8.853**	ug/L	0.131	1	148	26433	1	Standard
	Mn	**55**	**91.487**	ug/L	1.998	2	1780	3749317	1	Standard
>	**Ge**	**72**		ug/L			97794	91476	1	KED
		60		ug/L	0.038	0	15	10392	1	KED
	Ni	**62**	**7.034**	ug/L	0.295	4	2	1720	4	KED
		63		ug/L	0.179	1	99	40556	0	KED
	Cu	**65**	**9.489**	ug/L	0.117	1	53	20809	0	KED
		66		ug/L	0.425	2	300	13598	1	KED
	Zn	**67**	**20.289**	ug/L	0.472	2	50	2151	3	KED
		75		ug/L	0.038	1	4	659	2	KED
		78		ug/L	0.095	24	11	23	13	KED
	Y	**89**		ug/L			893628	1116574	2	Standard
	Kr	**83**		ug/L			62	83	6	Standard
>	**In-1**	**115**		ug/L			27117	25078	2	KED
		111		ug/L	0.008	23	3	14	16	KED
	Cd	**114**	**0.031**	ug/L	0.008	25	3	30	22	KED
>	**In**	**115**		ug/L			1764814	1729215	1	Standard
		107		ug/L	0.003	6	70	1107	4	Standard
		121		ug/L	0.001	30	359	453	6	Standard
	Sb	**123**	**0.003**	ug/L	0.001	39	300	351	6	Standard
	Ba	**135**	**19.982**	ug/L	0.573	2	33	135496	1	Standard
	Ba	**137**	**19.861**	ug/L	0.497	2	55	225721	0	Standard
>	**Tb**	**159**		ug/L			2798401	2895848	0	Standard
		205		ug/L	0.001	2	80	2605	2	Standard
		208		ug/L	0.062	1	353	526513	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:14:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1121291	4	Standard
		9		ug/L	0.003	3	13	464	2	Standard
	C	**13**		ug/L			30879	53507	0	Standard
	Cl	**37**		ug/L			8137590	8095961	0	Standard
>	**Sc**	**45**		ug/L			1506324	1506959	1	Standard
	V	**51**	**27.571**	ug/L	0.740	2	7630	868002	2	Standard
	V-1	**51**	**27.717**	ug/L	0.689	2	137	863153	2	Standard
		52		ug/L	0.135	1	22519	238305	1	Standard
	Cr	**53**	**8.521**	ug/L	0.048	0	148	25377	1	Standard
	Mn	**55**	**94.195**	ug/L	1.834	1	1780	3849469	1	Standard
>	**Ge**	**72**		ug/L			97794	91037	0	KED
		60		ug/L	0.009	0	15	8089	0	KED
	Ni	**62**	**5.436**	ug/L	0.309	5	2	1323	5	KED
		63		ug/L	0.014	0	99	34659	0	KED
	Cu	**65**	**7.939**	ug/L	0.021	0	53	17335	0	KED
		66		ug/L	0.197	1	300	10578	1	KED
	Zn	**67**	**16.374**	ug/L	0.217	1	50	1736	1	KED
		75		ug/L	0.033	2	4	487	1	KED
		78		ug/L	0.116	29	11	23	15	KED
	Y	**89**		ug/L			893628	1051631	1	Standard
	Kr	**83**		ug/L			62	81	11	Standard
>	**In-1**	**115**		ug/L			27117	24305	0	KED
		111		ug/L	0.009	53	3	8	35	KED
	Cd	**114**	**0.016**	ug/L	0.001	5	3	17	4	KED
>	**In**	**115**		ug/L			1764814	1717995	0	Standard
		107		ug/L	0.002	6	70	695	6	Standard
		121		ug/L	0.000	10	359	240	3	Standard
	Sb	**123**	**-0.004**	ug/L	0.001	28	300	227	8	Standard
	Ba	**135**	**15.559**	ug/L	0.156	1	33	104856	0	Standard
	Ba	**137**	**15.594**	ug/L	0.020	0	55	176133	0	Standard
>	**Tb**	**159**		ug/L			2798401	2895100	0	Standard
		205		ug/L	0.001	3	80	2341	2	Standard
		208		ug/L	0.004	0	353	180966	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:19:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1126399	1	Standard
	[redacted]	**9**	[redacted]	ug/L	0.007	7	13	544	8	Standard
	C	**13**		ug/L			30879	53284	0	Standard
	Cl	**37**		ug/L			8137590	8035199	0	Standard
>	**Sc**	**45**		ug/L			1506324	1527209	1	Standard
	V	**51**	**27.137**	ug/L	0.444	1	7630	865986	1	Standard
	V-1	**51**	**27.268**	ug/L	0.472	1	137	860628	1	Standard
	[redacted]	**52**	[redacted]	ug/L	0.124	1	22519	218974	0	Standard
	Cr	**53**	**7.626**	ug/L	0.044	0	148	23030	1	Standard
	Mn	**55**	**101.966**	ug/L	0.629	0	1780	4223325	0	Standard
>	**Ge**	**72**		ug/L			97794	91083	1	KED
	[redacted]	**60**	[redacted]	ug/L	0.144	2	15	8303	1	KED
	Ni	**62**	**5.512**	ug/L	0.161	2	2	1342	1	KED
	[redacted]	**63**	[redacted]	ug/L	0.123	1	99	37314	0	KED
	Cu	**65**	**8.673**	ug/L	0.153	1	53	18941	1	KED
	[redacted]	**66**	[redacted]	ug/L	0.271	1	300	10792	0	KED
	Zn	**67**	**16.899**	ug/L	0.309	1	50	1791	2	KED
	[redacted]	**75**	[redacted]	ug/L	0.052	3	4	474	2	KED
	[redacted]	**78**	[redacted]	ug/L	0.120	30	11	23	15	KED
	Y	**89**		ug/L			893628	1056859	0	Standard
	Kr	**83**		ug/L			62	83	18	Standard
>	**In-1**	**115**		ug/L			27117	24838	0	KED
	[redacted]	**111**	[redacted]	ug/L	0.010	65	3	7	42	KED
	Cd	**114**	**0.013**	ug/L	0.003	24	3	14	19	KED
>	**In**	**115**		ug/L			1764814	1714057	0	Standard
	[redacted]	**107**	[redacted]	ug/L	0.003	9	70	789	8	Standard
	[redacted]	**121**	[redacted]	ug/L	0.001	26	359	257	9	Standard
	Sb	**123**	**-0.005**	ug/L	0.001	13	300	205	5	Standard
	Ba	**135**	**17.023**	ug/L	0.180	1	33	114458	1	Standard
	Ba	**137**	**17.102**	ug/L	0.100	0	55	192723	0	Standard
>	**Tb**	**159**		ug/L			2798401	2864138	0	Standard
	[redacted]	**205**	[redacted]	ug/L	0.001	2	80	2607	1	Standard
	[redacted]	**208**	[redacted]	ug/L	0.018	1	353	188510	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:24:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1115902	2	Standard
		9		ug/L	0.632	2	13	144590	0	Standard
	C	**13**		ug/L			30879	51760	0	Standard
	Cl	**37**		ug/L			8137590	8220320	0	Standard
>	**Sc**	**45**		ug/L			1506324	1504214	0	Standard
	V	**51**	**52.828**	ug/L	0.829	1	7630	1653448	2	Standard
	V-1	**51**	**53.336**	ug/L	0.828	1	137	1658073	2	Standard
		52		ug/L	0.205	0	22519	889878	0	Standard
	Cr	**53**	**34.477**	ug/L	0.229	0	148	102035	0	Standard
	Mn	**55**	**129.256**	ug/L	1.009	0	1780	5272664	0	Standard
>	**Ge**	**72**		ug/L			97794	91404	0	KED
		60		ug/L	0.557	1	15	49038	1	KED
	Ni	**62**	**33.186**	ug/L	0.840	2	2	8099	2	KED
		63		ug/L	0.303	0	99	156921	0	KED
	Cu	**65**	**35.614**	ug/L	0.387	1	53	77905	1	KED
		66		ug/L	1.090	1	300	64346	0	KED
	Zn	**67**	**98.245**	ug/L	2.179	2	50	10226	1	KED
		75		ug/L	0.111	0	4	8190	0	KED
		78		ug/L	0.685	0	11	2663	1	KED
	Y	**89**		ug/L			893628	1064736	1	Standard
	Kr	**83**		ug/L			62	86	7	Standard
>	**In-1**	**115**		ug/L			27117	24531	1	KED
		111		ug/L	0.621	2	3	9290	0	KED
	Cd	**114**	**27.443**	ug/L	0.403	1	3	23925	0	KED
>	**In**	**115**		ug/L			1764814	1715951	0	Standard
		107		ug/L	0.410	1	70	645358	2	Standard
		121		ug/L	0.073	1	359	124654	1	Standard
	Sb	**123**	**5.171**	ug/L	0.047	0	300	95253	0	Standard
	Ba	**135**	**42.638**	ug/L	0.211	0	33	286954	0	Standard
	Ba	**137**	**42.460**	ug/L	0.444	1	55	478904	0	Standard
>	**Tb**	**159**		ug/L			2798401	2888826	0	Standard
		205		ug/L	0.249	0	80	2569734	0	Standard
		208		ug/L	0.183	0	353	3292582	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:29:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1141430	0	Standard
		9		ug/L	0.423	1	13	142217	1	Standard
	C	**13**		ug/L			30879	51491	1	Standard
	Cl	**37**		ug/L			8137590	8203994	1	Standard
>	**Sc**	**45**		ug/L			1506324	1523442	1	Standard
	V	**51**	**51.219**	ug/L	0.971	1	7630	1623668	2	Standard
	V-1	**51**	**51.642**	ug/L	0.868	1	137	1625800	2	Standard
		52		ug/L	0.587	1	22519	874411	1	Standard
	Cr	**53**	**33.191**	ug/L	0.261	0	148	99490	0	Standard
	Mn	**55**	**127.221**	ug/L	1.174	0	1780	5255862	0	Standard
>	**Ge**	**72**		ug/L			97794	90102	0	KED
		60		ug/L	0.316	0	15	47529	0	KED
	Ni	**62**	**32.803**	ug/L	0.382	1	2	7892	1	KED
		63		ug/L	0.233	0	99	155183	0	KED
	Cu	**65**	**36.041**	ug/L	0.270	0	53	77716	1	KED
		66		ug/L	1.603	1	300	62697	0	KED
	Zn	**67**	**97.511**	ug/L	1.213	1	50	10006	0	KED
		75		ug/L	0.110	0	4	8064	1	KED
		78		ug/L	1.003	1	11	2636	0	KED
	Y	**89**		ug/L			893628	1059524	1	Standard
	Kr	**83**		ug/L			62	86	19	Standard
>	**In-1**	**115**		ug/L			27117	24281	1	KED
		111		ug/L	0.160	0	3	9078	0	KED
	Cd	**114**	**27.407**	ug/L	0.146	0	3	23651	0	KED
>	**In**	**115**		ug/L			1764814	1719177	0	Standard
		107		ug/L	0.509	1	70	630980	1	Standard
		121		ug/L	0.064	1	359	112530	1	Standard
	Sb	**123**	**4.588**	ug/L	0.030	0	300	84713	0	Standard
	Ba	**135**	**40.694**	ug/L	0.253	0	33	274391	0	Standard
	Ba	**137**	**41.194**	ug/L	0.496	1	55	465512	0	Standard
>	**Tb**	**159**		ug/L			2798401	2925558	1	Standard
		205		ug/L	0.193	0	80	2528810	1	Standard
		208		ug/L	0.430	1	353	3246045	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:36:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1163400	1	Standard
	Be	**9**	**0.039**	ug/L	0.052	133	13	243	126	Standard
	C	**13**		ug/L			30879	30879	2	Standard
	Cl	**37**		ug/L			8137590	8014407	1	Standard
>	**Sc**	**45**		ug/L			1506324	1457286	0	Standard
	V	**51**	**0.109**	ug/L	0.165	150	7630	10692	46	Standard
	V-1	**51**	**0.119**	ug/L	0.170	142	137	3730	137	Standard
	Cr	**52**	**0.033**	ug/L	0.076	232	22519	22627	8	Standard
	Cr	**53**	**0.065**	ug/L	0.092	140	148	330	79	Standard
	Mn	**55**	**0.304**	ug/L	0.474	156	1780	13759	136	Standard
>	**Ge**	**72**		ug/L			97794	91413	0	KED
	Ni	**60**	**0.002**	ug/L	0.004	285	15	17	38	KED
	Ni	**62**	**0.011**	ug/L	0.016	146	2	5	78	KED
	Cu	**63**	**0.002**	ug/L	0.004	269	99	100	19	KED
	Cu	**65**	**0.001**	ug/L	0.003	257	53	52	11	KED
	Zn	**66**	**-0.330**	ug/L	0.006	1	300	73	5	KED
	Zn	**67**	**-0.348**	ug/L	0.028	8	50	10	26	KED
	As	**75**	**0.000**	ug/L	0.002	490	4	3	13	KED
	Se	**78**	**0.031**	ug/L	0.044	141	11	11	13	KED
	Y	**89**		ug/L			893628	878843	3	Standard
	Kr	**83**		ug/L			62	53	31	Standard
>	**In-1**	**115**		ug/L			27117	24738	1	KED
	Cd	**111**	**-0.006**	ug/L	0.003	49	3	0	100	KED
	Cd	**114**	**0.000**	ug/L	0.000	53	3	3	2	KED
>	**In**	**115**		ug/L			1764814	1708406	1	Standard
	Ag	**107**	**0.044**	ug/L	0.060	134	70	1128	126	Standard
	Sb	**121**	**-0.000**	ug/L	0.011	5128	359	343	79	Standard
	Sb	**123**	**-0.002**	ug/L	0.010	676	300	263	72	Standard
	Ba	**135**	**0.088**	ug/L	0.129	146	33	626	139	Standard
	Ba	**137**	**0.088**	ug/L	0.130	147	55	1044	140	Standard
>	**Tb**	**159**		ug/L			2798401	2763382	1	Standard
	Tl	**205**	**0.042**	ug/L	0.058	138	80	3793	136	Standard
	Pb	**208**	**0.051**	ug/L	0.062	120	353	6523	114	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:41:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1090476	2	Standard
	Be	**9**	**49.332**	ug/L	1.369	2	13	269400	0	Standard
	C	**13**		ug/L			30879	29687	1	Standard
	Cl	**37**		ug/L			8137590	8541554	0	Standard
>	**Sc**	**45**		ug/L			1506324	1387712	0	Standard
	V	**51**	**47.849**	ug/L	0.851	1	7630	1382261	2	Standard
	V-1	**51**	**48.341**	ug/L	0.683	1	137	1386366	1	Standard
	Cr	**52**	**48.594**	ug/L	0.047	0	22519	1202069	0	Standard
	Cr	**53**	**50.254**	ug/L	0.623	1	148	137146	0	Standard
	Mn	**55**	**49.847**	ug/L	0.205	0	1780	1876971	0	Standard
>	**Ge**	**72**		ug/L			97794	88311	0	KED
	Ni	**60**	**51.075**	ug/L	1.151	2	15	73568	1	KED
	Ni	**62**	**51.623**	ug/L	1.222	2	2	12170	1	KED
	Cu	**63**	**52.022**	ug/L	1.210	2	99	217917	1	KED
	Cu	**65**	**51.959**	ug/L	0.418	0	53	109787	0	KED
	Zn	**66**	**51.575**	ug/L	1.127	2	300	31654	1	KED
	Zn	**67**	**51.057**	ug/L	0.667	1	50	5156	0	KED
	As	**75**	**50.165**	ug/L	0.568	1	4	14680	0	KED
	Se	**78**	**49.891**	ug/L	1.751	3	11	1634	3	KED
	Y	**89**		ug/L			893628	856780	0	Standard
	Kr	**83**		ug/L			62	61	14	Standard
>	**In-1**	**115**		ug/L			27117	23687	1	KED
	Cd	**111**	**52.207**	ug/L	0.350	0	3	17004	0	KED
	Cd	**114**	**52.023**	ug/L	0.449	0	3	43795	1	KED
>	**In**	**115**		ug/L			1764814	1640575	0	Standard
	Ag	**107**	**50.510**	ug/L	0.148	0	70	1151343	0	Standard
	Sb	**121**	**48.160**	ug/L	0.232	0	359	1168006	0	Standard
	Sb	**123**	**50.352**	ug/L	0.191	0	300	884324	0	Standard
	Ba	**135**	**46.360**	ug/L	0.614	1	33	298287	0	Standard
	Ba	**137**	**46.233**	ug/L	0.629	1	55	498560	1	Standard
>	**Tb**	**159**		ug/L			2798401	2774730	1	Standard
	Tl	**205**	**51.689**	ug/L	0.551	1	80	4593515	0	Standard
	Pb	**208**	**48.783**	ug/L	0.696	1	353	5851547	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:48:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1134519	1	Standard
	Be	**9**	**0.001**	ug/L	0.001	171	13	18	46	Standard
	C	**13**		ug/L			30879	30868	1	Standard
	Cl	**37**		ug/L			8137590	8264256	0	Standard
>	**Sc**	**45**		ug/L			1506324	1421689	0	Standard
	V	**51**	**0.011**	ug/L	0.003	24	7630	7530	1	Standard
	V-1	**51**	**0.000**	ug/L	0.001	235	137	137	13	Standard
	Cr	**52**	**0.034**	ug/L	0.007	20	22519	22091	0	Standard
	Cr	**53**	**-0.003**	ug/L	0.010	333	148	132	20	Standard
	Mn	**55**	**-0.013**	ug/L	0.001	4	1780	1180	2	Standard
>	**Ge**	**72**		ug/L			97794	90971	0	KED
	Ni	**60**	**0.005**	ug/L	0.003	52	15	22	17	KED
	Ni	**62**	**-0.004**	ug/L	0.009	202	2	1	173	KED
	Cu	**63**	**0.007**	ug/L	0.003	38	99	121	8	KED
	Cu	**65**	**0.006**	ug/L	0.004	75	53	62	15	KED
	Zn	**66**	**-0.133**	ug/L	0.045	34	300	196	14	KED
	Zn	**67**	**-0.077**	ug/L	0.059	77	50	38	15	KED
	As	**75**	**-0.001**	ug/L	0.003	284	4	3	28	KED
	Se	**78**	**0.089**	ug/L	0.044	49	11	13	11	KED
	Y	**89**		ug/L			893628	853616	1	Standard
	Kr	**83**		ug/L			62	57	26	Standard
>	**In-1**	**115**		ug/L			27117	24752	0	KED
	Cd	**111**	**-0.003**	ug/L	0.000	0	3	1		KED
	Cd	**114**	**0.004**	ug/L	0.001	33	3	6	17	KED
>	**In**	**115**		ug/L			1764814	1678518	0	Standard
	Ag	**107**	**0.003**	ug/L	0.001	18	70	138	10	Standard
	Sb	**121**	**0.027**	ug/L	0.003	9	359	1011	6	Standard
	Sb	**123**	**0.032**	ug/L	0.000	0	300	856	0	Standard
	Ba	**135**	**0.013**	ug/L	0.000	2	33	120	1	Standard
	Ba	**137**	**0.015**	ug/L	0.002	13	55	216	9	Standard
>	**Tb**	**159**		ug/L			2798401	2757528	0	Standard
	Tl	**205**	**0.002**	ug/L	0.001	37	80	272	27	Standard
	Pb	**208**	**0.003**	ug/L	0.001	19	353	728	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:53:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1147971	3	Standard
	Be	**9**	**0.002**	ug/L	0.002	117	13	25	54	Standard
	C	**13**		ug/L			30879	38855	1	Standard
	Cl	**37**		ug/L			8137590	8134093	0	Standard
>	**Sc**	**45**		ug/L			1506324	1454957	1	Standard
	V	**51**	**0.016**	ug/L	0.003	21	7630	7842	0	Standard
	V-1	**51**	**0.004**	ug/L	0.001	18	137	252	9	Standard
		52		ug/L	0.011	24	22519	22912	1	Standard
	Cr	**53**	**0.006**	ug/L	0.004	59	148	161	8	Standard
	Mn	**55**	**-0.004**	ug/L	0.003	63	1780	1547	7	Standard
>	**Ge**	**72**		ug/L			97794	90508	1	KED
	Ni	**60**	**0.014**	ug/L	0.018	128	15	34	74	KED
	Ni	**62**	**0.038**	ug/L	0.041	109	2	11	86	KED
		63		ug/L	0.015	88	99	166	39	KED
	Cu	**65**	**0.017**	ug/L	0.018	109	53	85	45	KED
		66	**-**	ug/L	0.046	45	300	215	12	KED
	Zn	**67**	**-0.111**	ug/L	0.140	126	50	34	40	KED
		75		ug/L	0.008	267	4	4	52	KED
	Se	**78**	**0.133**	ug/L	0.113	85	11	14	26	KED
	Y	**89**		ug/L			893628	879485	0	Standard
	Kr	**83**		ug/L			62	52	9	Standard
>	**In-1**	**115**		ug/L			27117	24362	1	KED
		111		ug/L	0.001	13	3	6	8	KED
	Cd	**114**	**0.014**	ug/L	0.005	34	3	15	26	KED
>	**In**	**115**		ug/L			1764814	1684440	0	Standard
		107		ug/L	0.001	39	70	125	17	Standard
	Sb	**121**	**0.004**	ug/L	0.001	21	359	435	4	Standard
	Sb	**123**	**0.003**	ug/L	0.001	17	300	342	2	Standard
	Ba	**135**	**0.007**	ug/L	0.001	18	33	77	11	Standard
	Ba	**137**	**0.007**	ug/L	0.001	12	55	133	7	Standard
>	**Tb**	**159**		ug/L			2798401	2763575	1	Standard
	Tl	**205**	**0.002**	ug/L	0.000	15	80	252	11	Standard
	Pb	**208**	**0.005**	ug/L	0.001	17	353	932	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:58:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1143279	1	Standard
⌊	**Be**	**9**	**23.993**	ug/L	0.738	3	13	137397	1	Standard
	C	**13**		ug/L			30879	37385	0	Standard
	Cl	**37**		ug/L			8137590	8185802	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1428840	1	Standard
|	**V**	**51**	**24.175**	ug/L	0.294	1	7630	722535	1	Standard
|	**V-1**	**51**	**24.480**	ug/L	0.336	1	137	722832	1	Standard
|	[redacted]	**52**	[redacted]	ug/L	0.255	1	22519	642661	1	Standard
|	**Cr**	**53**	**25.854**	ug/L	0.476	1	148	72715	2	Standard
⌊	**Mn**	**55**	**25.935**	ug/L	0.373	1	1780	1006146	0	Standard
⌈>	**Ge**	**72**		ug/L			97794	90658	0	KED
|	**Ni**	**60**	**26.018**	ug/L	0.810	3	15	38482	2	KED
|	**Ni**	**62**	**25.995**	ug/L	0.613	2	2	6292	1	KED
|	[redacted]	**63**	[redacted]	ug/L	0.392	1	99	115201	1	KED
|	**Cu**	**65**	**27.246**	ug/L	0.258	0	53	59126	1	KED
|	[redacted]	**66**	[redacted]	ug/L	0.638	0	300	51464	0	KED
|	**Zn**	**67**	**78.128**	ug/L	1.958	2	50	8076	2	KED
|	[redacted]	**75**	[redacted]	ug/L	0.235	0	4	7373	1	KED
⌊	**Se**	**78**	**76.081**	ug/L	1.673	2	11	2554	2	KED
	Y	**89**		ug/L			893628	873421	2	Standard
	Kr	**83**		ug/L			62	61	24	Standard
⌈>	**In-1**	**115**		ug/L			27117	24430	0	KED
|	[redacted]	**111**	[redacted]	ug/L	0.574	2	3	8733	2	KED
⌊	**Cd**	**114**	**26.248**	ug/L	0.316	1	3	22792	0	KED
⌈>	**In**	**115**		ug/L			1764814	1699904	0	Standard
|	[redacted]	**107**	[redacted]	ug/L	0.028	0	70	622974	0	Standard
|	**Sb**	**121**	**-0.002**	ug/L	0.001	40	359	298	6	Standard
|	**Sb**	**123**	**-0.004**	ug/L	0.001	23	300	221	7	Standard
|	**Ba**	**135**	**22.660**	ug/L	0.290	1	33	151086	1	Standard
⌊	**Ba**	**137**	**22.566**	ug/L	0.301	1	55	252161	0	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2729968	0	Standard
|	**Tl**	**205**	**27.836**	ug/L	0.090	0	80	2434049	0	Standard
⌊	**Pb**	**208**	**24.650**	ug/L	0.050	0	353	2909578	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:03:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1151242	2	Standard
	Be	**9**	**0.199**	ug/L	0.015	7	13	1157	5	Standard
	C	**13**		ug/L			30879	46908	1	Standard
	Cl	**37**		ug/L			8137590	8198719	1	Standard
>	**Sc**	**45**		ug/L			1506324	1534355	1	Standard
	V	**51**	**36.413**	ug/L	0.160	0	7630	1164887	2	Standard
	V-1	**51**	**36.704**	ug/L	0.081	0	137	1163879	1	Standard
		52		ug/L	0.265	1	22519	518020	2	Standard
	Cr	**53**	**19.262**	ug/L	0.120	0	148	58213	1	Standard
	Mn	**55**	**233.989**	ug/L	4.102	1	1780	9733277	0	Standard
>	**Ge**	**72**		ug/L			97794	88958	0	KED
	Ni	**60**	**22.176**	ug/L	0.456	2	15	32186	1	KED
	Ni	**62**	**22.359**	ug/L	0.366	1	2	5312	2	KED
		63		ug/L	0.373	1	99	94318	1	KED
	Cu	**65**	**22.322**	ug/L	0.553	2	53	47538	2	KED
		66		ug/L	0.730	2	300	19345	1	KED
	Zn	**67**	**30.464**	ug/L	0.252	0	50	3117	0	KED
		75		ug/L	0.111	5	4	652	4	KED
	Se	**78**	**0.545**	ug/L	0.039	7	11	28	4	KED
	Y	**89**		ug/L			893628	1164952	0	Standard
	Kr	**83**		ug/L			62	135	13	Standard
>	**In-1**	**115**		ug/L			27117	23675	1	KED
		111		ug/L	0.002	5	3	17	3	KED
	Cd	**114**	**0.071**	ug/L	0.021	29	3	62	25	KED
>	**In**	**115**		ug/L			1764814	1680428	0	Standard
		107		ug/L	0.003	4	70	1504	4	Standard
	Sb	**121**	**0.003**	ug/L	0.001	38	359	419	7	Standard
	Sb	**123**	**0.002**	ug/L	0.001	48	300	326	5	Standard
	Ba	**135**	**26.714**	ug/L	0.399	1	33	176071	0	Standard
	Ba	**137**	**27.194**	ug/L	0.281	1	55	300392	0	Standard
>	**Tb**	**159**		ug/L			2798401	2946314	0	Standard
	Tl	**205**	**0.030**	ug/L	0.000	0	80	2929	1	Standard
	Pb	**208**	**2.926**	ug/L	0.042	1	353	373077	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:08:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1103866	1	Standard
	Be	**9**	**0.227**	ug/L	0.003	1	13	1267	0	Standard
	C	**13**		ug/L			30879	46881	0	Standard
	Cl	**37**		ug/L			8137590	8106864	1	Standard
>	**Sc**	**45**		ug/L			1506324	1570241	1	Standard
	V	**51**	**31.071**	ug/L	0.560	1	7630	1018248	1	Standard
	V-1	**51**	**31.329**	ug/L	0.506	1	137	1016561	0	Standard
		52		ug/L	0.175	1	22519	438270	0	Standard
	Cr	**53**	**15.828**	ug/L	0.044	0	148	48985	1	Standard
	Mn	**55**	**178.388**	ug/L	2.458	1	1780	7595174	0	Standard
>	**Ge**	**72**		ug/L			97794	88682	0	KED
	Ni	**60**	**13.951**	ug/L	0.116	0	15	20192	1	KED
	Ni	**62**	**14.311**	ug/L	0.452	3	2	3389	2	KED
		63		ug/L	0.235	0	99	110873	1	KED
	Cu	**65**	**26.603**	ug/L	0.187	0	53	56472	0	KED
		66		ug/L	0.279	0	300	33637	1	KED
	Zn	**67**	**53.002**	ug/L	1.482	2	50	5374	3	KED
		75		ug/L	0.096	1	4	1493	1	KED
	Se	**78**	**0.741**	ug/L	0.143	19	11	34	13	KED
	Y	**89**		ug/L			893628	1203716	1	Standard
	Kr	**83**		ug/L			62	158	11	Standard
>	**In-1**	**115**		ug/L			27117	23663	1	KED
		111		ug/L	0.030	18	3	54	17	KED
	Cd	**114**	**0.132**	ug/L	0.011	8	3	114	8	KED
>	**In**	**115**		ug/L			1764814	1673758	0	Standard
		107		ug/L	0.000	0	70	2957	0	Standard
	Sb	**121**	**0.003**	ug/L	0.002	55	359	412	9	Standard
	Sb	**123**	**-0.001**	ug/L	0.001	98	300	268	6	Standard
	Ba	**135**	**27.354**	ug/L	0.379	1	33	179578	1	Standard
	Ba	**137**	**27.798**	ug/L	0.259	0	55	305849	0	Standard
>	**Tb**	**159**		ug/L			2798401	2950539	1	Standard
	Tl	**205**	**0.048**	ug/L	0.001	1	80	4661	2	Standard
	Pb	**208**	**9.248**	ug/L	0.045	0	353	1180034	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:13:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1097487	2	Standard
	Be	**9**	**0.185**	ug/L	0.016	8	13	1029	8	Standard
	C	**13**		ug/L			30879	47507	0	Standard
	Cl	**37**		ug/L			8137590	8039843	1	Standard
>	**Sc**	**45**		ug/L			1506324	1535225	0	Standard
	V	**51**	**24.903**	ug/L	0.388	1	7630	799551	1	Standard
	V-1	**51**	**25.062**	ug/L	0.377	1	137	795168	1	Standard
		52		ug/L	0.071	0	22519	340934	0	Standard
	Cr	**53**	**12.258**	ug/L	0.107	0	148	37124	0	Standard
	Mn	**55**	**142.923**	ug/L	1.835	1	1780	5950232	0	Standard
>	**Ge**	**72**		ug/L			97794	88886	0	KED
	Ni	**60**	**10.708**	ug/L	0.365	3	15	15534	2	KED
	Ni	**62**	**10.975**	ug/L	0.437	3	2	2605	3	KED
		63		ug/L	0.442	1	99	109771	1	KED
	Cu	**65**	**25.704**	ug/L	0.240	0	53	54692	1	KED
		66		ug/L	1.039	2	300	31827	1	KED
	Zn	**67**	**49.415**	ug/L	1.449	2	50	5025	3	KED
		75		ug/L	0.147	2	4	2004	1	KED
	Se	**78**	**0.499**	ug/L	0.097	19	11	26	11	KED
	Y	**89**		ug/L			893628	1162891	1	Standard
	Kr	**83**		ug/L			62	89	13	Standard
>	**In-1**	**115**		ug/L			27117	23761	1	KED
		111		ug/L	0.032	17	3	64	17	KED
	Cd	**114**	**0.158**	ug/L	0.021	13	3	136	12	KED
>	**In**	**115**		ug/L			1764814	1673927	0	Standard
		107		ug/L	0.006	4	70	2905	5	Standard
	Sb	**121**	**0.004**	ug/L	0.001	31	359	428	6	Standard
	Sb	**123**	**0.005**	ug/L	0.002	32	300	368	6	Standard
	Ba	**135**	**27.701**	ug/L	0.618	2	33	181856	1	Standard
	Ba	**137**	**27.794**	ug/L	0.408	1	55	305821	0	Standard
>	**Tb**	**159**		ug/L			2798401	2936486	0	Standard
	Tl	**205**	**0.046**	ug/L	0.002	3	80	4391	3	Standard
	Pb	**208**	**9.118**	ug/L	0.090	0	353	1157859	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:18:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1145837	2	Standard
	Be	**9**	**0.145**	ug/L	0.017	12	13	844	13	Standard
	C	**13**		ug/L			30879	40914	0	Standard
	Cl	**37**		ug/L			8137590	8245844	1	Standard
>	**Sc**	**45**		ug/L			1506324	1541480	0	Standard
	V	**51**	**31.918**	ug/L	0.742	2	7630	1026666	1	Standard
	V-1	**51**	**32.165**	ug/L	0.748	2	137	1024596	1	Standard
		52		ug/L	0.333	1	22519	533081	1	Standard
	Cr	**53**	**19.623**	ug/L	0.325	1	148	59576	1	Standard
	Mn	**55**	**248.482**	ug/L	2.928	1	1780	10385575	0	Standard
>	**Ge**	**72**		ug/L			97794	89420	1	KED
	Ni	**60**	**17.829**	ug/L	0.258	1	15	26014	1	KED
	Ni	**62**	**18.083**	ug/L	0.311	1	2	4318	0	KED
		63		ug/L	0.180	1	99	52617	0	KED
	Cu	**65**	**12.298**	ug/L	0.179	1	53	26350	2	KED
		66		ug/L	0.248	0	300	21228	1	KED
	Zn	**67**	**32.196**	ug/L	0.968	3	50	3308	2	KED
		75		ug/L	0.020	0	4	678	0	KED
	Se	**78**	**0.426**	ug/L	0.017	3	11	24	3	KED
	Y	**89**		ug/L			893628	1134692	1	Standard
	Kr	**83**		ug/L			62	120	12	Standard
>	**In-1**	**115**		ug/L			27117	24075	0	KED
		111		ug/L	0.002	5	3	13	4	KED
	Cd	**114**	**0.036**	ug/L	0.009	26	3	33	23	KED
>	**In**	**115**		ug/L			1764814	1717029	0	Standard
		107		ug/L	0.002	4	70	1306	3	Standard
	Sb	**121**	**-0.002**	ug/L	0.000	18	359	297	3	Standard
	Sb	**123**	**-0.004**	ug/L	0.000	3	300	226	1	Standard
	Ba	**135**	**18.096**	ug/L	0.109	0	33	121886	1	Standard
	Ba	**137**	**18.199**	ug/L	0.041	0	55	205434	0	Standard
>	**Tb**	**159**		ug/L			2798401	2949380	0	Standard
	Tl	**205**	**0.026**	ug/L	0.001	2	80	2587	2	Standard
	Pb	**208**	**2.253**	ug/L	0.015	0	353	287685	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:24:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1115272	1	Standard
		9		ug/L	0.007	3	13	1025	5	Standard
	C	**13**		ug/L			30879	62919	0	Standard
	Cl	**37**		ug/L			8137590	7983284	0	Standard
>	**Sc**	**45**		ug/L			1506324	1577861	0	Standard
	V	**51**	**29.423**	ug/L	0.369	1	7630	969424	0	Standard
	V-1	**51**	**29.581**	ug/L	0.369	1	137	964579	0	Standard
		52		ug/L	0.046	0	22519	270912	0	Standard
	Cr	**53**	**9.325**	ug/L	0.047	0	148	29063	0	Standard
	Mn	**55**	**98.619**	ug/L	0.091	0	1780	4220447	0	Standard
>	**Ge**	**72**		ug/L			97794	88275	1	KED
		60		ug/L	0.153	1	15	11408	0	KED
	Ni	**62**	**7.800**	ug/L	0.161	2	2	1840	3	KED
		63		ug/L	0.176	1	99	69354	0	KED
	Cu	**65**	**16.517**	ug/L	0.342	2	53	34914	1	KED
		66		ug/L	0.180	0	300	12678	1	KED
	Zn	**67**	**20.547**	ug/L	0.366	1	50	2101	2	KED
		75		ug/L	0.031	0	4	1289	0	KED
		78		ug/L	0.151	26	11	28	16	KED
	Y	**89**		ug/L			893628	1174740	1	Standard
	Kr	**83**		ug/L			62	93	10	Standard
>	**In-1**	**115**		ug/L			27117	24364	1	KED
		111		ug/L	0.005	23	3	9	15	KED
	Cd	**114**	**0.025**	ug/L	0.007	29	3	24	24	KED
>	**In**	**115**		ug/L			1764814	1695222	1	Standard
		107		ug/L	0.003	5	70	1516	6	Standard
		121		ug/L	0.001	43	359	275	12	Standard
	Sb	**123**	**-0.005**	ug/L	0.001	28	300	202	10	Standard
	Ba	**135**	**20.501**	ug/L	0.394	1	33	136304	0	Standard
	Ba	**137**	**20.606**	ug/L	0.292	1	55	229616	0	Standard
>	**Tb**	**159**		ug/L			2798401	2930968	0	Standard
		205		ug/L	0.001	1	80	3317	2	Standard
		208		ug/L	0.008	0	353	282242	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:29:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1134837	3	Standard
		9		ug/L	0.006	2	13	1233	2	Standard
	C	**13**		ug/L			30879	64349	0	Standard
	Cl	**37**		ug/L			8137590	8015494	1	Standard
>	**Sc**	**45**		ug/L			1506324	1590845	1	Standard
	V	**51**	**34.235**	ug/L	0.895	2	7630	1135697	1	Standard
	V-1	**51**	**34.456**	ug/L	0.926	2	137	1132497	1	Standard
		52		ug/L	0.237	2	22519	349706	1	Standard
	Cr	**53**	**12.268**	ug/L	0.283	2	148	38493	0	Standard
	Mn	**55**	**110.279**	ug/L	2.844	2	1780	4756925	1	Standard
>	**Ge**	**72**		ug/L			97794	89012	0	KED
		60		ug/L	0.021	0	15	14116	0	KED
	Ni	**62**	**9.720**	ug/L	0.202	2	2	2311	2	KED
		63		ug/L	0.184	0	99	122677	0	KED
	Cu	**65**	**29.167**	ug/L	0.470	1	53	62138	1	KED
		66		ug/L	0.224	0	300	15873	1	KED
	Zn	**67**	**25.605**	ug/L	0.918	3	50	2629	3	KED
		75		ug/L	0.051	0	4	1824	0	KED
		78		ug/L	0.073	9	11	35	7	KED
	Y	**89**		ug/L			893628	1227218	1	Standard
	Kr	**83**		ug/L			62	94	6	Standard
>	**In-1**	**115**		ug/L			27117	23852	1	KED
		111		ug/L	0.022	24	3	32	21	KED
	Cd	**114**	**0.095**	ug/L	0.024	25	3	83	23	KED
>	**In**	**115**		ug/L			1764814	1695883	0	Standard
		107		ug/L	0.005	5	70	2256	5	Standard
		121	-	ug/L	0.001	24	359	280	6	Standard
	Sb	**123**	**-0.006**	ug/L	0.001	9	300	173	7	Standard
	Ba	**135**	**28.418**	ug/L	0.311	1	33	189021	0	Standard
	Ba	**137**	**28.847**	ug/L	0.418	1	55	321575	0	Standard
>	**Tb**	**159**		ug/L			2798401	2933815	0	Standard
		205		ug/L	0.003	4	80	5750	3	Standard
		208		ug/L	0.043	0	353	658900	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:34:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1107380	1	Standard
		9		ug/L	0.015	6	13	1372	7	Standard
	C	**13**		ug/L			30879	62149	0	Standard
	Cl	**37**		ug/L			8137590	8068820	1	Standard
>	**Sc**	**45**		ug/L			1506324	1558883	3	Standard
	V	**51**	**42.981**	ug/L	0.642	1	7630	1395156	2	Standard
	V-1	**51**	**43.151**	ug/L	0.653	1	137	1389766	2	Standard
		52		ug/L	0.156	1	22519	268572	2	Standard
	Cr	**53**	**9.301**	ug/L	0.185	1	148	28625	1	Standard
	Mn	**55**	**78.073**	ug/L	2.118	2	1780	3299349	1	Standard
>	**Ge**	**72**		ug/L			97794	88050	0	KED
		60		ug/L	0.211	0	15	35245	1	KED
	Ni	**62**	**24.713**	ug/L	0.754	3	2	5811	3	KED
		63		ug/L	0.589	2	99	94705	1	KED
	Cu	**65**	**22.557**	ug/L	0.394	1	53	47545	1	KED
		66		ug/L	1.779	1	300	63272	0	KED
	Zn	**67**	**98.504**	ug/L	2.645	2	50	9876	1	KED
		75		ug/L	0.263	2	4	2616	3	KED
		78		ug/L	0.055	6	11	36	5	KED
	Y	**89**		ug/L			893628	1374967	1	Standard
	Kr	**83**		ug/L			62	108	10	Standard
>	**In-1**	**115**		ug/L			27117	23922	1	KED
		111		ug/L	0.037	12	3	100	11	KED
	Cd	**114**	**0.304**	ug/L	0.032	10	3	261	9	KED
>	**In**	**115**		ug/L			1764814	1690841	1	Standard
		107		ug/L	0.002	3	70	1652	4	Standard
		121		ug/L	0.001	40	359	266	10	Standard
	Sb	**123**	**-0.004**	ug/L	0.001	20	300	215	8	Standard
	Ba	**135**	**18.834**	ug/L	0.049	0	33	124916	1	Standard
	Ba	**137**	**19.007**	ug/L	0.103	0	55	211281	1	Standard
>	**Tb**	**159**		ug/L			2798401	2924853	1	Standard
		205		ug/L	0.002	1	80	13853	2	Standard
		208		ug/L	0.005	0	353	255633	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:41:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1118731	1	Standard
	Be	**9**	**-0.001**	ug/L	0.001	42	13	6	45	Standard
	C	**13**		ug/L			30879	29872	1	Standard
	Cl	**37**		ug/L			8137590	7821587	0	Standard
>	**Sc**	**45**		ug/L			1506324	1420944	1	Standard
	V	**51**	**-0.002**	ug/L	0.005	244	7630	7133	0	Standard
	V-1	**51**	**0.000**	ug/L	0.001	480	137	135	21	Standard
	Cr	**52**	**-0.008**	ug/L	0.014	172	22519	21036	0	Standard
	Cr	**53**	**-0.000**	ug/L	0.002	616	148	139	5	Standard
	Mn	**55**	**-0.019**	ug/L	0.001	4	1780	930	3	Standard
>	**Ge**	**72**		ug/L			97794	88793	1	KED
	Ni	**60**	**0.001**	ug/L	0.001	246	15	15	12	KED
	Ni	**62**	**0.030**	ug/L	0.024	79	2	9	60	KED
	Cu	**63**	**0.006**	ug/L	0.004	62	99	116	12	KED
	Cu	**65**	**0.001**	ug/L	0.005	621	53	50	21	KED
	Zn	**66**	**-0.330**	ug/L	0.003	1	300	71	4	KED
	Zn	**67**	**-0.339**	ug/L	0.020	5	50	11	16	KED
	As	**75**	**0.000**	ug/L	0.002	753	4	3	12	KED
	Se	**78**	**0.003**	ug/L	0.044	1276	11	10	15	KED
	Y	**89**		ug/L			893628	873414	0	Standard
	Kr	**83**		ug/L			62	55	3	Standard
>	**In-1**	**115**		ug/L			27117	24291	1	KED
	Cd	**111**	**0.003**	ug/L	0.003	102	3	3	25	KED
	Cd	**114**	**-0.002**	ug/L	0.002	111	3	1	114	KED
>	**In**	**115**		ug/L			1764814	1672405	0	Standard
	Ag	**107**	**0.000**	ug/L	0.000	174	70	73	15	Standard
	Sb	**121**	**-0.008**	ug/L	0.001	10	359	138	13	Standard
	Sb	**123**	**-0.010**	ug/L	0.001	6	300	99	11	Standard
	Ba	**135**	**0.002**	ug/L	0.002	89	33	47	30	Standard
	Ba	**137**	**0.001**	ug/L	0.000	17	55	66	2	Standard
>	**Tb**	**159**		ug/L			2798401	2718275	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	64	80	59	21	Standard
	Pb	**208**	**0.006**	ug/L	0.000	3	353	1087	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:46:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1113087	2	Standard
	Be	**9**	**48.388**	ug/L	1.034	2	13	269766	0	Standard
	C	**13**		ug/L			30879	29443	1	Standard
	Cl	**37**		ug/L			8137590	8524920	1	Standard
>	**Sc**	**45**		ug/L			1506324	1414332	1	Standard
	V	**51**	**46.729**	ug/L	0.978	2	7630	1375692	1	Standard
	V-1	**51**	**47.440**	ug/L	0.985	2	137	1386315	1	Standard
	Cr	**52**	**47.392**	ug/L	0.813	1	22519	1195115	1	Standard
	Cr	**53**	**49.786**	ug/L	1.055	2	148	138445	0	Standard
	Mn	**55**	**49.283**	ug/L	0.558	1	1780	1891081	0	Standard
>	**Ge**	**72**		ug/L			97794	87380	1	KED
	Ni	**60**	**50.836**	ug/L	1.128	2	15	72446	0	KED
	Ni	**62**	**50.430**	ug/L	0.634	1	2	11764	1	KED
	Cu	**63**	**51.653**	ug/L	1.537	2	99	214056	1	KED
	Cu	**65**	**51.382**	ug/L	0.694	1	53	107416	0	KED
	Zn	**66**	**51.544**	ug/L	0.648	1	300	31302	0	KED
	Zn	**67**	**51.099**	ug/L	1.333	2	50	5106	2	KED
	As	**75**	**49.914**	ug/L	0.389	0	4	14452	0	KED
	Se	**78**	**49.564**	ug/L	1.055	2	11	1606	1	KED
	Y	**89**		ug/L			893628	858126	1	Standard
	Kr	**83**		ug/L			62	62	21	Standard
>	**In-1**	**115**		ug/L			27117	23345	0	KED
	Cd	**111**	**51.965**	ug/L	0.961	1	3	16683	1	KED
	Cd	**114**	**52.526**	ug/L	0.333	0	3	43581	0	KED
>	**In**	**115**		ug/L			1764814	1650929	0	Standard
	Ag	**107**	**51.491**	ug/L	1.118	2	70	1181054	1	Standard
	Sb	**121**	**48.083**	ug/L	0.804	1	359	1173453	1	Standard
	Sb	**123**	**50.155**	ug/L	0.174	0	300	886405	0	Standard
	Ba	**135**	**46.648**	ug/L	0.343	0	33	302044	0	Standard
	Ba	**137**	**46.808**	ug/L	0.509	1	55	507941	0	Standard
>	**Tb**	**159**		ug/L			2798401	2811152	1	Standard
	Tl	**205**	**51.525**	ug/L	0.195	0	80	4639377	0	Standard
	Pb	**208**	**49.302**	ug/L	0.588	1	353	5991722	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:53:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1140311	2	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	365	13	14	27	Standard
	C	**13**		ug/L			30879	30142	0	Standard
	Cl	**37**		ug/L			8137590	8208784	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1431977	1	Standard
⌈	**V**	**51**	**0.004**	ug/L	0.005	128	7630	7378	1	Standard
⌈	**V-1**	**51**	**-0.001**	ug/L	0.000	29	137	112	6	Standard
⌈	**Cr**	**52**	**0.016**	ug/L	0.017	107	22519	21811	1	Standard
⌈	**Cr**	**53**	**-0.000**	ug/L	0.001	38755	148	141	4	Standard
⌊	**Mn**	**55**	**-0.012**	ug/L	0.001	9	1780	1211	3	Standard
⌈>	**Ge**	**72**		ug/L			97794	89407	0	KED
⌈	**Ni**	**60**	**0.003**	ug/L	0.004	146	15	18	31	KED
⌈	**Ni**	**62**	**0.012**	ug/L	0.024	211	2	5	114	KED
⌈	**Cu**	**63**	**0.004**	ug/L	0.004	104	99	107	15	KED
⌈	**Cu**	**65**	**0.004**	ug/L	0.004	101	53	57	15	KED
⌈	**Zn**	**66**	**-0.110**	ug/L	0.044	40	300	206	12	KED
⌈	**Zn**	**67**	**-0.164**	ug/L	0.115	69	50	29	39	KED
⌈	**As**	**75**	**0.005**	ug/L	0.002	33	4	5	9	KED
⌊	**Se**	**78**	**0.115**	ug/L	0.034	29	11	13	7	KED
	Y	**89**		ug/L			893628	856145	3	Standard
	Kr	**83**		ug/L			62	55	13	Standard
⌈>	**In-1**	**115**		ug/L			27117	24371	1	KED
⌈	**Cd**	**111**	**-0.004**	ug/L	0.006	158	3	1	124	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.001	36	3	0	209	KED
⌈>	**In**	**115**		ug/L			1764814	1676823	1	Standard
⌈	**Ag**	**107**	**0.002**	ug/L	0.001	36	70	120	17	Standard
⌈	**Sb**	**121**	**0.028**	ug/L	0.002	6	359	1045	3	Standard
⌈	**Sb**	**123**	**0.030**	ug/L	0.001	2	300	819	3	Standard
⌈	**Ba**	**135**	**0.019**	ug/L	0.001	6	33	157	4	Standard
⌊	**Ba**	**137**	**0.019**	ug/L	0.002	11	55	263	9	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2738057	1	Standard
⌈	**Tl**	**205**	**0.001**	ug/L	0.000	27	80	185	14	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	31	353	632	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:58:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1133960	1	Standard
⌊	**Be**	**9**	**0.167**	ug/L	0.009	5	13	963	6	Standard
	C	**13**		ug/L			30879	44268	0	Standard
	Cl	**37**		ug/L			8137590	8089789	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1511992	0	Standard
⌈	**V**	**51**	**29.942**	ug/L	0.101	0	7630	945242	0	Standard
⌈	**V-1**	**51**	**30.186**	ug/L	0.074	0	137	943239	0	Standard
⌈	[redacted]	**52**	[redacted]	ug/L	0.146	1	22519	387345	1	Standard
⌈	**Cr**	**53**	**14.468**	ug/L	0.052	0	148	43129	0	Standard
⌊	**Mn**	**55**	**233.797**	ug/L	2.700	1	1780	9585539	1	Standard
⌈>	**Ge**	**72**		ug/L			97794	88808	0	KED
⌈	**Ni**	**60**	**14.475**	ug/L	0.150	1	15	20978	0	KED
⌈	**Ni**	**62**	**14.825**	ug/L	0.223	1	2	3516	1	KED
⌈	[redacted]	**63**	[redacted]	ug/L	0.230	1	99	62244	1	KED
⌈	**Cu**	**65**	**14.879**	ug/L	0.110	0	53	31650	0	KED
⌈	[redacted]	**66**	[redacted]	ug/L	0.233	0	300	19370	0	KED
⌈	**Zn**	**67**	**30.316**	ug/L	0.362	1	50	3097	0	KED
⌈	[redacted]	**75**	[redacted]	ug/L	0.020	0	4	914	1	KED
⌊	**Se**	**78**	**0.554**	ug/L	0.099	17	11	28	10	KED
	Y	**89**		ug/L			893628	1138342	1	Standard
	Kr	**83**		ug/L			62	125	24	Standard
⌈>	**In-1**	**115**		ug/L			27117	24106	0	KED
⌈	[redacted]	**111**	[redacted]	ug/L	0.001	3	3	15	3	KED
⌊	**Cd**	**114**	**0.035**	ug/L	0.005	15	3	33	14	KED
⌈>	**In**	**115**		ug/L			1764814	1694091	2	Standard
⌈	[redacted]	**107**	[redacted]	ug/L	0.001	2	70	1168	2	Standard
⌈	**Sb**	**121**	**0.011**	ug/L	0.001	10	359	613	3	Standard
⌈	**Sb**	**123**	**0.012**	ug/L	0.001	5	300	513	3	Standard
⌈	**Ba**	**135**	**19.832**	ug/L	0.457	2	33	131752	1	Standard
⌊	**Ba**	**137**	**19.903**	ug/L	0.419	2	55	221593	0	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2942299	1	Standard
⌈	**Tl**	**205**	**0.034**	ug/L	0.001	2	80	3333	1	Standard
⌊	**Pb**	**208**	**2.785**	ug/L	0.039	1	353	354552	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:03:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1113872	1	Standard
	Be	**9**	**0.186**	ug/L	0.001	0	13	1053	2	Standard
	C	**13**		ug/L			30879	44765	1	Standard
	Cl	**37**		ug/L			8137590	8137899	0	Standard
>	**Sc**	**45**		ug/L			1506324	1554778	0	Standard
	V	**51**	**27.880**	ug/L	0.252	0	7630	905640	1	Standard
	V-1	**51**	**28.096**	ug/L	0.228	0	137	902829	1	Standard
	[redacted]	**52**	[redacted]	ug/L	0.106	0	22519	376079	1	Standard
	Cr	**53**	**13.567**	ug/L	0.051	0	148	41597	0	Standard
	Mn	**55**	**230.362**	ug/L	1.619	0	1780	9711961	1	Standard
>	**Ge**	**72**		ug/L			97794	88659	1	KED
	Ni	**60**	**15.036**	ug/L	0.248	1	15	21753	1	KED
	Ni	**62**	**15.221**	ug/L	0.474	3	2	3603	2	KED
	[redacted]	**63**	[redacted]	ug/L	0.108	0	99	75533	0	KED
	Cu	**65**	**18.035**	ug/L	0.134	0	53	38287	0	KED
	[redacted]	**66**	[redacted]	ug/L	0.887	2	300	24160	1	KED
	Zn	**67**	**37.847**	ug/L	1.222	3	50	3849	3	KED
	[redacted]	**75**	[redacted]	ug/L	0.038	0	4	1256	1	KED
	Se	**78**	**0.608**	ug/L	0.045	7	11	30	5	KED
	Y	**89**		ug/L			893628	1169408	1	Standard
	Kr	**83**		ug/L			62	132	11	Standard
>	**In-1**	**115**		ug/L			27117	23967	0	KED
	[redacted]	**111**	[redacted]	ug/L	0.009	16	3	20	13	KED
	Cd	**114**	**0.068**	ug/L	0.010	15	3	61	14	KED
>	**In**	**115**		ug/L			1764814	1675279	1	Standard
	[redacted]	**107**	[redacted]	ug/L	0.004	5	70	1672	4	Standard
	Sb	**121**	**0.006**	ug/L	0.001	8	359	495	1	Standard
	Sb	**123**	**0.005**	ug/L	0.002	44	300	377	10	Standard
	Ba	**135**	**27.729**	ug/L	0.308	1	33	182193	0	Standard
	Ba	**137**	**28.117**	ug/L	0.207	0	55	309639	0	Standard
>	**Tb**	**159**		ug/L			2798401	2929380	0	Standard
	Tl	**205**	**0.047**	ug/L	0.001	2	80	4522	2	Standard
	Pb	**208**	**5.026**	ug/L	0.007	0	353	636893	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:08:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1112737	4	Standard
	Be	**9**	**0.174**	ug/L	0.009	5	13	980	2	Standard
	C	**13**		ug/L			30879	41477	0	Standard
	Cl	**37**		ug/L			8137590	8180850	1	Standard
>	**Sc**	**45**		ug/L			1506324	1525408	3	Standard
	V	**51**	**29.861**	ug/L	0.762	2	7630	950608	1	Standard
	V-1	**51**	**30.079**	ug/L	0.735	2	137	947798	1	Standard
		52		ug/L	0.428	3	22519	402718	1	Standard
	Cr	**53**	**14.841**	ug/L	0.337	2	148	44608	0	Standard
	Mn	**55**	**291.000**	ug/L	7.263	2	1780	12030027	0	Standard
>	**Ge**	**72**		ug/L			97794	88779	0	KED
	Ni	**60**	**19.931**	ug/L	0.305	1	15	28872	1	KED
	Ni	**62**	**19.894**	ug/L	0.206	1	2	4716	1	KED
		63		ug/L	0.031	0	99	65398	0	KED
	Cu	**65**	**15.594**	ug/L	0.059	0	53	33159	0	KED
		66		ug/L	0.500	1	300	19088	1	KED
	Zn	**67**	**29.623**	ug/L	0.715	2	50	3026	2	KED
		75		ug/L	0.113	3	4	897	3	KED
	Se	**78**	**0.493**	ug/L	0.097	19	11	26	11	KED
	Y	**89**		ug/L			893628	1121756	4	Standard
	Kr	**83**		ug/L			62	120	30	Standard
>	**In-1**	**115**		ug/L			27117	23941	1	KED
		111		ug/L	0.016	53	3	12	40	KED
	Cd	**114**	**0.034**	ug/L	0.012	33	3	32	30	KED
>	**In**	**115**		ug/L			1764814	1651185	3	Standard
		107		ug/L	0.001	3	70	1017	3	Standard
	Sb	**121**	**-0.001**	ug/L	0.001	69	359	313	3	Standard
	Sb	**123**	**-0.003**	ug/L	0.001	54	300	234	11	Standard
	Ba	**135**	**19.320**	ug/L	0.470	2	33	125056	1	Standard
	Ba	**137**	**19.604**	ug/L	0.765	3	55	212586	1	Standard
>	**Tb**	**159**		ug/L			2798401	2887356	4	Standard
	Tl	**205**	**0.039**	ug/L	0.001	3	80	3655	1	Standard
	Pb	**208**	**2.064**	ug/L	0.079	3	353	257708	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:13:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1136809	2	Standard
	Be	**9**	**0.169**	ug/L	0.003	1	13	976	0	Standard
	C	**13**		ug/L			30879	38695	0	Standard
	Cl	**37**		ug/L			8137590	8136268	0	Standard
>	**Sc**	**45**		ug/L			1506324	1535005	0	Standard
	V	**51**	**27.587**	ug/L	0.375	1	7630	884750	1	Standard
	V-1	**51**	**27.819**	ug/L	0.347	1	137	882514	1	Standard
		52		ug/L	0.290	2	22519	371632	1	Standard
	Cr	**53**	**13.638**	ug/L	0.251	1	148	41279	1	Standard
	Mn	**55**	**258.473**	ug/L	4.613	1	1780	10757553	1	Standard
>	**Ge**	**72**		ug/L			97794	88031	1	KED
	Ni	**60**	**17.059**	ug/L	0.222	1	15	24505	0	KED
	Ni	**62**	**17.042**	ug/L	0.460	2	2	4006	1	KED
		63		ug/L	0.203	1	99	52684	0	KED
	Cu	**65**	**12.489**	ug/L	0.123	0	53	26341	0	KED
		66		ug/L	0.269	0	300	17046	1	KED
	Zn	**67**	**26.568**	ug/L	1.101	4	50	2696	3	KED
		75		ug/L	0.021	0	4	721	1	KED
	Se	**78**	**0.386**	ug/L	0.130	33	11	22	17	KED
	Y	**89**		ug/L			893628	1143335	1	Standard
	Kr	**83**		ug/L			62	138	15	Standard
>	**In-1**	**115**		ug/L			27117	23543	0	KED
		111		ug/L	0.006	24	3	10	18	KED
	Cd	**114**	**0.044**	ug/L	0.014	31	3	40	28	KED
>	**In**	**115**		ug/L			1764814	1675525	0	Standard
		107		ug/L	0.003	6	70	1132	6	Standard
	Sb	**121**	**0.001**	ug/L	0.002	167	359	372	13	Standard
	Sb	**123**	**-0.000**	ug/L	0.001	278	300	277	6	Standard
	Ba	**135**	**18.258**	ug/L	0.186	1	33	119998	0	Standard
	Ba	**137**	**18.377**	ug/L	0.237	1	55	202422	0	Standard
>	**Tb**	**159**		ug/L			2798401	2930900	0	Standard
	Tl	**205**	**0.043**	ug/L	0.000	0	80	4077	1	Standard
	Pb	**208**	**1.720**	ug/L	0.021	1	353	218331	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:18:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1125813	2	Standard
	Be	**9**	**0.164**	ug/L	0.012	7	13	935	5	Standard
	C	**13**		ug/L			30879	38120	1	Standard
	Cl	**37**		ug/L			8137590	8193267	0	Standard
>	**Sc**	**45**		ug/L			1506324	1518226	2	Standard
	V	**51**	**24.705**	ug/L	0.176	0	7630	784432	2	Standard
	V-1	**51**	**24.941**	ug/L	0.209	0	137	782567	2	Standard
		52		ug/L	0.160	1	22519	375081	1	Standard
	Cr	**53**	**13.962**	ug/L	0.204	1	148	41788	1	Standard
	Mn	**55**	**228.713**	ug/L	3.930	1	1780	9413133	0	Standard
>	**Ge**	**72**		ug/L			97794	88064	1	KED
	Ni	**60**	**16.568**	ug/L	0.394	2	15	23804	1	KED
	Ni	**62**	**16.563**	ug/L	0.842	5	2	3893	3	KED
		63		ug/L	0.190	1	99	50855	0	KED
	Cu	**65**	**12.052**	ug/L	0.185	1	53	25427	0	KED
		66		ug/L	0.439	1	300	15509	2	KED
	Zn	**67**	**24.564**	ug/L	1.070	4	50	2498	5	KED
		75		ug/L	0.042	1	4	674	3	KED
	Se	**78**	**0.431**	ug/L	0.047	11	11	24	8	KED
	Y	**89**		ug/L			893628	1116882	0	Standard
	Kr	**83**		ug/L			62	126	15	Standard
>	**In-1**	**115**		ug/L			27117	23389	0	KED
		111		ug/L	0.014	24	3	20	21	KED
	Cd	**114**	**0.035**	ug/L	0.006	16	3	31	14	KED
>	**In**	**115**		ug/L			1764814	1669354	0	Standard
		107		ug/L	0.002	4	70	979	4	Standard
	Sb	**121**	**-0.002**	ug/L	0.001	34	359	280	6	Standard
	Sb	**123**	**-0.006**	ug/L	0.001	24	300	183	12	Standard
	Ba	**135**	**14.724**	ug/L	0.221	1	33	96415	0	Standard
	Ba	**137**	**14.840**	ug/L	0.212	1	55	162866	0	Standard
>	**Tb**	**159**		ug/L			2798401	2904214	0	Standard
	Tl	**205**	**0.033**	ug/L	0.002	5	80	3181	5	Standard
	Pb	**208**	**1.605**	ug/L	0.018	1	353	201907	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:23:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1086626	3	Standard
	Be	**9**	**25.380**	ug/L	1.017	4	13	138041	0	Standard
	C	**13**		ug/L			30879	35914	1	Standard
	Cl	**37**		ug/L			8137590	8124409	1	Standard
>	**Sc**	**45**		ug/L			1506324	1486918	4	Standard
	V	**51**	**48.164**	ug/L	1.264	2	7630	1489584	1	Standard
	V-1	**51**	**48.723**	ug/L	1.215	2	137	1496097	2	Standard
	[redacted]	**52**	[redacted]	ug/L	1.039	2	22519	943793	1	Standard
	Cr	**53**	**37.194**	ug/L	0.870	2	148	108731	2	Standard
	Mn	**55**	**274.616**	ug/L	6.858	2	1780	11064156	2	Standard
>	**Ge**	**72**		ug/L			97794	88538	1	KED
	Ni	**60**	**44.701**	ug/L	0.776	1	15	64554	0	KED
	Ni	**62**	**44.593**	ug/L	0.644	1	2	10541	1	KED
	[redacted]	**63**	[redacted]	ug/L	0.688	1	99	168111	0	KED
	Cu	**65**	**39.863**	ug/L	0.932	2	53	84443	1	KED
	[redacted]	**66**	[redacted]	ug/L	1.441	1	300	66479	0	KED
	Zn	**67**	**102.940**	ug/L	0.578	0	50	10377	1	KED
	[redacted]	**75**	[redacted]	ug/L	0.082	0	4	7943	1	KED
	Se	**78**	**75.759**	ug/L	1.711	2	11	2483	1	KED
	Y	**89**		ug/L			893628	1130172	3	Standard
	Kr	**83**		ug/L			62	127	11	Standard
>	**In-1**	**115**		ug/L			27117	23653	1	KED
	[redacted]	**111**	[redacted]	ug/L	0.314	1	3	8587	0	KED
	Cd	**114**	**26.480**	ug/L	0.215	0	3	22260	0	KED
>	**In**	**115**		ug/L			1764814	1603289	6	Standard
	[redacted]	**107**	[redacted]	ug/L	1.680	6	70	585698	0	Standard
	Sb	**121**	**-0.002**	ug/L	0.001	63	359	270	10	Standard
	Sb	**123**	**-0.002**	ug/L	0.001	44	300	230	3	Standard
	Ba	**135**	**42.583**	ug/L	2.712	6	33	267077	0	Standard
	Ba	**137**	**42.633**	ug/L	2.804	6	55	448097	0	Standard
>	**Tb**	**159**		ug/L			2798401	2840224	3	Standard
	Tl	**205**	**26.555**	ug/L	0.678	2	80	2414314	1	Standard
	Pb	**208**	**25.267**	ug/L	0.839	3	353	3100269	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:28:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1117883	3	Standard
⌊	**Be**	**9**	**24.461**	ug/L	0.816	3	13	136912	1	Standard
	C	**13**		ug/L			30879	35372	0	Standard
	Cl	**37**		ug/L			8137590	8079738	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1509941	0	Standard
⌈	**V**	**51**	**48.033**	ug/L	0.264	0	7630	1509681	0	Standard
⌈	**V-1**	**51**	**48.578**	ug/L	0.286	0	137	1515829	0	Standard
⌈		**52**		ug/L	0.108	0	22519	1018787	0	Standard
⌈	**Cr**	**53**	**39.419**	ug/L	0.392	0	148	117089	1	Standard
⌊	**Mn**	**55**	**241.232**	ug/L	2.331	0	1780	9876716	0	Standard
⌈>	**Ge**	**72**		ug/L			97794	88540	0	KED
⌈	**Ni**	**60**	**46.248**	ug/L	0.251	0	15	66796	0	KED
⌈	**Ni**	**62**	**46.399**	ug/L	0.307	0	2	10968	0	KED
⌈		**63**		ug/L	0.415	1	99	163821	1	KED
⌈	**Cu**	**65**	**38.867**	ug/L	0.320	0	53	82355	1	KED
⌈		**66**		ug/L	0.504	0	300	65187	0	KED
⌈	**Zn**	**67**	**101.462**	ug/L	1.476	1	50	10229	0	KED
⌈		**75**		ug/L	0.202	0	4	7875	0	KED
⌊	**Se**	**78**	**76.492**	ug/L	0.259	0	11	2507	0	KED
	Y	**89**		ug/L			893628	1113204	0	Standard
	Kr	**83**		ug/L			62	138	2	Standard
⌈>	**In-1**	**115**		ug/L			27117	23565	2	KED
⌈		**111**		ug/L	0.517	1	3	8422	0	KED
⌊	**Cd**	**114**	**26.561**	ug/L	0.552	2	3	22240	1	KED
⌈>	**In**	**115**		ug/L			1764814	1656995	0	Standard
⌈		**107**		ug/L	0.400	1	70	581698	1	Standard
⌈	**Sb**	**121**	**-0.005**	ug/L	0.001	14	359	221	8	Standard
⌈	**Sb**	**123**	**-0.005**	ug/L	0.000	9	300	201	3	Standard
⌈	**Ba**	**135**	**52.583**	ug/L	0.775	1	33	341707	1	Standard
⌊	**Ba**	**137**	**53.036**	ug/L	0.803	1	55	577627	1	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2902055	2	Standard
⌈	**Tl**	**205**	**26.360**	ug/L	0.562	2	80	2449768	1	Standard
⌊	**Pb**	**208**	**24.555**	ug/L	0.371	1	353	3080466	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKE0771-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:34:00

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1130812	2	Standard
⌊	**Be**	**9**	**22.806**	ug/L	0.613	2	13	129169	0	Standard
	C	**13**		ug/L			30879	38462	0	Standard
	Cl	**37**		ug/L			8137590	8217160	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1515850	1	Standard
|	**V**	**51**	**49.437**	ug/L	0.351	0	7630	1559770	2	Standard
|	**V-1**	**51**	**49.814**	ug/L	0.288	0	137	1560548	2	Standard
|	**Cr**	**52**	**35.593**	ug/L	0.361	1	22519	967808	1	Standard
|	**Cr**	**53**	**36.756**	ug/L	0.192	0	148	109611	1	Standard
⌊	**Mn**	**55**	**286.406**	ug/L	1.809	0	1780	11771078	1	Standard
⌈>	**Ge**	**72**		ug/L			97794	88775	0	KED
|	**Ni**	**60**	**41.291**	ug/L	0.540	1	15	59795	0	KED
|	**Ni**	**62**	**40.986**	ug/L	0.341	0	2	9715	1	KED
|	**Cu**	**63**	**37.475**	ug/L	0.167	0	99	157848	0	KED
|	**Cu**	**65**	**37.568**	ug/L	0.353	0	53	79812	0	KED
|	**Zn**	**66**	**103.123**	ug/L	0.826	0	300	63359	0	KED
|	**Zn**	**67**	**97.960**	ug/L	1.399	1	50	9903	0	KED
|	**As**	**75**	**26.252**	ug/L	0.265	1	4	7724	0	KED
⌊	**Se**	**78**	**69.839**	ug/L	0.457	0	11	2296	0	KED
	Y	**89**		ug/L			893628	1126742	2	Standard
	Kr	**83**		ug/L			62	121	5	Standard
⌈>	**In-1**	**115**		ug/L			27117	23328	1	KED
|	**Cd**	**111**	**25.157**	ug/L	0.023	0	3	8071	1	KED
⌊	**Cd**	**114**	**25.191**	ug/L	0.292	1	3	20885	0	KED
⌈>	**In**	**115**		ug/L			1764814	1672406	1	Standard
|	**Ag**	**107**	**25.234**	ug/L	0.396	1	70	586309	0	Standard
|	**Sb**	**121**	**-0.003**	ug/L	0.001	31	359	257	11	Standard
|	**Sb**	**123**	**-0.005**	ug/L	0.001	15	300	192	8	Standard
|	**Ba**	**135**	**41.174**	ug/L	0.122	0	33	270084	1	Standard
⌊	**Ba**	**137**	**41.771**	ug/L	0.148	0	55	459199	1	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2908800	0	Standard
|	**Tl**	**205**	**25.150**	ug/L	0.370	1	80	2343071	0	Standard
⌊	**Pb**	**208**	**23.595**	ug/L	0.067	0	353	2967594	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:40:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1131604	1	Standard
	Be	**9**	**11.021**	ug/L	0.278	2	13	62482	1	Standard
	C	**13**		ug/L			30879	33859	0	Standard
	Cl	**37**		ug/L			8137590	8142145	0	Standard
>	**Sc**	**45**		ug/L			1506324	1429961	0	Standard
	V	**51**	**34.149**	ug/L	0.204	0	7630	1018542	1	Standard
	V-1	**51**	**34.635**	ug/L	0.218	0	137	1023546	1	Standard
		52		ug/L	0.252	0	22519	859178	1	Standard
	Cr	**53**	**35.076**	ug/L	0.253	0	148	98687	1	Standard
	Mn	**55**	**81.275**	ug/L	0.651	0	1780	3152365	0	Standard
>	**Ge**	**72**		ug/L			97794	89676	1	KED
	Ni	**60**	**10.698**	ug/L	0.210	1	15	15658	1	KED
	Ni	**62**	**10.926**	ug/L	0.233	2	2	2617	1	KED
		63		ug/L	0.355	0	99	159642	1	KED
	Cu	**65**	**37.425**	ug/L	0.870	2	53	80307	1	KED
		66		ug/L	2.387	2	300	55631	1	KED
	Zn	**67**	**88.343**	ug/L	1.727	1	50	9026	1	KED
		75		ug/L	0.353	1	4	6263	0	KED
	Se	**78**	**20.516**	ug/L	0.541	2	11	688	1	KED
	Y	**89**		ug/L			893628	955854	0	Standard
	Kr	**83**		ug/L			62	68	26	Standard
>	**In-1**	**115**		ug/L			27117	23403	3	KED
		111		ug/L	0.260	2	3	3219	2	KED
	Cd	**114**	**10.044**	ug/L	0.108	1	3	8355	2	KED
>	**In**	**115**		ug/L			1764814	1698330	1	Standard
		107		ug/L	0.072	1	70	138657	2	Standard
	Sb	**121**	**1.528**	ug/L	0.037	2	359	38699	0	Standard
	Sb	**123**	**1.586**	ug/L	0.028	1	300	29109	0	Standard
	Ba	**135**	**66.137**	ug/L	0.929	1	33	440450	0	Standard
	Ba	**137**	**66.192**	ug/L	1.123	1	55	738787	0	Standard
>	**Tb**	**159**		ug/L			2798401	2809187	1	Standard
	Tl	**205**	**18.844**	ug/L	0.099	0	80	1695565	0	Standard
	Pb	**208**	**19.615**	ug/L	0.082	0	353	2382598	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:46:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1102087	3	Standard
	Be	**9**	**0.000**	ug/L	0.001	537	13	13	34	Standard
	C	**13**		ug/L			30879	30931	1	Standard
	Cl	**37**		ug/L			8137590	7831564	1	Standard
>	**Sc**	**45**		ug/L			1506324	1390025	1	Standard
	V	**51**	**0.003**	ug/L	0.003	111	7630	7129	1	Standard
	V-1	**51**	**0.001**	ug/L	0.001	93	137	163	21	Standard
	Cr	**52**	**0.005**	ug/L	0.015	297	22519	20902	1	Standard
	Cr	**53**	**-0.001**	ug/L	0.003	302	148	134	6	Standard
	Mn	**55**	**-0.011**	ug/L	0.004	41	1780	1241	14	Standard
>	**Ge**	**72**		ug/L			97794	88977	1	KED
	Ni	**60**	**-0.005**	ug/L	0.004	85	15	7	75	KED
	Ni	**62**	**-0.004**	ug/L	0.005	106	2	1	86	KED
	Cu	**63**	**0.005**	ug/L	0.004	89	99	111	17	KED
	Cu	**65**	**0.004**	ug/L	0.004	97	53	57	15	KED
	Zn	**66**	**-0.336**	ug/L	0.029	8	300	67	25	KED
	Zn	**67**	**-0.339**	ug/L	0.018	5	50	11	16	KED
	As	**75**	**-0.002**	ug/L	0.003	164	4	3	31	KED
	Se	**78**	**0.055**	ug/L	0.056	101	11	11	14	KED
	Y	**89**		ug/L			893628	845175	1	Standard
	Kr	**83**		ug/L			62	69	10	Standard
>	**In-1**	**115**		ug/L			27117	23986	1	KED
	Cd	**111**	**0.001**	ug/L	0.002	156	3	3	17	KED
	Cd	**114**	**-0.001**	ug/L	0.001	92	3	2	42	KED
>	**In**	**115**		ug/L			1764814	1666471	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	57	70	97	18	Standard
	Sb	**121**	**-0.008**	ug/L	0.000	4	359	143	6	Standard
	Sb	**123**	**-0.010**	ug/L	0.000	4	300	112	6	Standard
	Ba	**135**	**0.005**	ug/L	0.002	52	33	62	25	Standard
	Ba	**137**	**0.005**	ug/L	0.003	53	55	113	28	Standard
>	**Tb**	**159**		ug/L			2798401	2706809	0	Standard
	Tl	**205**	**0.003**	ug/L	0.001	36	80	297	26	Standard
	Pb	**208**	**0.008**	ug/L	0.001	15	353	1282	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:51:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1097241	2	Standard
	Be	**9**	**48.261**	ug/L	0.984	2	13	265219	0	Standard
	C	**13**		ug/L			30879	29611	0	Standard
	Cl	**37**		ug/L			8137590	8458016	1	Standard
>	**Sc**	**45**		ug/L			1506324	1384263	1	Standard
	V	**51**	**47.841**	ug/L	1.115	2	7630	1378450	2	Standard
	V-1	**51**	**48.427**	ug/L	0.964	1	137	1385308	2	Standard
	Cr	**52**	**48.286**	ug/L	0.669	1	22519	1191513	0	Standard
	Cr	**53**	**50.261**	ug/L	0.173	0	148	136834	1	Standard
	Mn	**55**	**49.816**	ug/L	0.308	0	1780	1871120	1	Standard
>	**Ge**	**72**		ug/L			97794	85988	1	KED
	Ni	**60**	**51.511**	ug/L	0.492	0	15	72248	0	KED
	Ni	**62**	**51.724**	ug/L	0.210	0	2	11874	1	KED
	Cu	**63**	**52.452**	ug/L	0.807	1	99	213941	0	KED
	Cu	**65**	**52.298**	ug/L	0.745	1	53	107592	0	KED
	Zn	**66**	**51.377**	ug/L	0.456	0	300	30711	2	KED
	Zn	**67**	**51.377**	ug/L	0.456	0	50	5052	1	KED
	As	**75**	**50.377**	ug/L	0.107	0	4	14355	1	KED
	Se	**78**	**49.124**	ug/L	0.722	1	11	1567	1	KED
	Y	**89**		ug/L			893628	840913	1	Standard
	Kr	**83**		ug/L			62	62	10	Standard
>	**In-1**	**115**		ug/L			27117	22765	1	KED
	Cd	**111**	**51.995**	ug/L	0.694	1	3	16276	1	KED
	Cd	**114**	**52.573**	ug/L	0.526	1	3	42534	1	KED
>	**In**	**115**		ug/L			1764814	1634787	0	Standard
	Ag	**107**	**51.030**	ug/L	1.195	2	70	1158941	1	Standard
	Sb	**121**	**47.478**	ug/L	0.458	0	359	1147339	0	Standard
	Sb	**123**	**49.321**	ug/L	0.800	1	300	863066	0	Standard
	Ba	**135**	**45.920**	ug/L	0.287	0	33	294416	0	Standard
	Ba	**137**	**46.077**	ug/L	0.319	0	55	495122	0	Standard
>	**Tb**	**159**		ug/L			2798401	2742954	1	Standard
	Tl	**205**	**52.605**	ug/L	0.404	0	80	4621589	0	Standard
	Pb	**208**	**49.941**	ug/L	0.736	1	353	5921829	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:59:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1126042	2	Standard
	Be	**9**	**0.001**	ug/L	0.001	71	13	20	24	Standard
	C	**13**		ug/L			30879	30128	0	Standard
	Cl	**37**		ug/L			8137590	8175222	0	Standard
>	**Sc**	**45**		ug/L			1506324	1398793	0	Standard
	V	**51**	**0.014**	ug/L	0.003	18	7630	7500	1	Standard
	V-1	**51**	**-0.000**	ug/L	0.001	158	137	117	12	Standard
	Cr	**52**	**0.045**	ug/L	0.006	14	22519	22011	1	Standard
	Cr	**53**	**-0.004**	ug/L	0.004	105	148	126	9	Standard
	Mn	**55**	**-0.011**	ug/L	0.001	10	1780	1251	3	Standard
>	**Ge**	**72**		ug/L			97794	88938	1	KED
	Ni	**60**	**0.001**	ug/L	0.007	1157	15	15	64	KED
	Ni	**62**	**0.012**	ug/L	0.009	77	2	5	43	KED
	Cu	**63**	**0.005**	ug/L	0.004	80	99	111	16	KED
	Cu	**65**	**0.010**	ug/L	0.007	69	53	69	22	KED
	Zn	**66**	**-0.133**	ug/L	0.004	2	300	192	0	KED
	Zn	**67**	**-0.093**	ug/L	0.059	62	50	36	15	KED
	As	**75**	**0.002**	ug/L	0.006	319	4	4	40	KED
	Se	**78**	**0.101**	ug/L	0.019	18	11	13	5	KED
	Y	**89**		ug/L			893628	850087	1	Standard
	Kr	**83**		ug/L			62	48	8	Standard
>	**In-1**	**115**		ug/L			27117	24150	0	KED
	Cd	**111**	**-0.005**	ug/L	0.003	70	3	1	86	KED
	Cd	**114**	**0.001**	ug/L	0.001	128	3	4	27	KED
>	**In**	**115**		ug/L			1764814	1664300	0	Standard
	Ag	**107**	**0.002**	ug/L	0.000	18	70	122	9	Standard
	Sb	**121**	**0.028**	ug/L	0.002	5	359	1030	3	Standard
	Sb	**123**	**0.028**	ug/L	0.001	2	300	773	1	Standard
	Ba	**135**	**0.026**	ug/L	0.002	9	33	204	8	Standard
	Ba	**137**	**0.024**	ug/L	0.002	9	55	316	7	Standard
>	**Tb**	**159**		ug/L			2798401	2721643	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	14	80	286	10	Standard
	Pb	**208**	**0.003**	ug/L	0.000	4	353	735	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:04:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1151380	0	Standard
	Be	**9**	**-0.000**	ug/L	0.001	169	13	10	44	Standard
	C	**13**		ug/L			30879	42267	2	Standard
	Cl	**37**		ug/L			8137590	8168889	0	Standard
>	**Sc**	**45**		ug/L			1506324	1431323	1	Standard
		51		ug/L	0.004	18	7630	7907	0	Standard
	V-1	**51**	**0.006**	ug/L	0.000	4	137	302	1	Standard
	Cr	**52**	**0.123**	ug/L	0.015	12	22519	24485	0	Standard
	Cr	**53**	**0.069**	ug/L	0.002	3	148	334	0	Standard
	Mn	**55**	**-0.014**	ug/L	0.001	5	1780	1129	2	Standard
>	**Ge**	**72**		ug/L			97794	88264	0	KED
	Ni	**60**	**0.001**	ug/L	0.006	550	15	15	54	KED
	Ni	**62**	**0.025**	ug/L	0.012	48	2	8	35	KED
	Cu	**63**	**0.011**	ug/L	0.004	34	99	136	12	KED
	Cu	**65**	**0.013**	ug/L	0.003	25	53	76	8	KED
	Zn	**66**	**-0.191**	ug/L	0.007	3	300	155	3	KED
	Zn	**67**	**-0.090**	ug/L	0.138	153	50	36	37	KED
		75		ug/L	0.003	53	4	5	17	KED
	Se	**78**	**0.111**	ug/L	0.104	93	11	13	24	KED
	Y	**89**		ug/L			893628	864815	0	Standard
	Kr	**83**		ug/L			62	46	8	Standard
>	**In-1**	**115**		ug/L			27117	23777	2	KED
	Cd	**111**	**-0.002**	ug/L	0.003	202	3	2	49	KED
	Cd	**114**	**-0.000**	ug/L	0.003	1220	3	3	74	KED
>	**In**	**115**		ug/L			1764814	1694448	0	Standard
	Ag	**107**	**0.001**	ug/L	0.000	71	70	81	12	Standard
		121		ug/L	0.001	36	359	434	7	Standard
	Sb	**123**	**0.003**	ug/L	0.001	28	300	338	3	Standard
	Ba	**135**	**0.005**	ug/L	0.002	29	33	67	14	Standard
	Ba	**137**	**0.004**	ug/L	0.002	38	55	102	18	Standard
>	**Tb**	**159**		ug/L			2798401	2744743	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	7	80	234	5	Standard
		208		ug/L	0.001	5	353	1446	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:09:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1125219	2	Standard
	Be	**9**	**24.318**	ug/L	0.418	1	13	137067	1	Standard
	C	**13**		ug/L			30879	45746	0	Standard
	Cl	**37**		ug/L			8137590	8500263	0	Standard
>	**Sc**	**45**		ug/L			1506324	1413602	1	Standard
		51		ug/L	0.435	1	7630	721085	1	Standard
	V-1	**51**	**24.687**	ug/L	0.339	1	137	721122	0	Standard
	Cr	**52**	**24.980**	ug/L	0.806	3	22519	639527	2	Standard
	Cr	**53**	**25.981**	ug/L	0.546	2	148	72278	0	Standard
	Mn	**55**	**25.775**	ug/L	0.453	1	1780	989264	1	Standard
>	**Ge**	**72**		ug/L			97794	85909	0	KED
	Ni	**60**	**26.884**	ug/L	0.090	0	15	37681	0	KED
	Ni	**62**	**26.929**	ug/L	0.366	1	2	6177	1	KED
	Cu	**63**	**30.445**	ug/L	0.285	0	99	124110	0	KED
	Cu	**65**	**30.401**	ug/L	0.406	1	53	62509	1	KED
	Zn	**66**	**84.201**	ug/L	1.213	1	300	50111	1	KED
	Zn	**67**	**79.322**	ug/L	0.759	0	50	7769	0	KED
		75		ug/L	0.389	1	4	7193	1	KED
	Se	**78**	**76.644**	ug/L	1.896	2	11	2437	1	KED
	Y	**89**		ug/L			893628	852072	1	Standard
	Kr	**83**		ug/L			62	68	20	Standard
>	**In-1**	**115**		ug/L			27117	22807	0	KED
	Cd	**111**	**26.580**	ug/L	0.405	1	3	8337	0	KED
	Cd	**114**	**26.891**	ug/L	0.477	1	3	21798	1	KED
>	**In**	**115**		ug/L			1764814	1635434	0	Standard
	Ag	**107**	**25.974**	ug/L	0.417	1	70	590233	1	Standard
		121		ug/L	0.077	0	359	591466	0	Standard
	Sb	**123**	**25.499**	ug/L	0.171	0	300	446536	0	Standard
	Ba	**135**	**24.015**	ug/L	0.142	0	33	154046	0	Standard
	Ba	**137**	**24.248**	ug/L	0.159	0	55	260703	1	Standard
>	**Tb**	**159**		ug/L			2798401	2790816	0	Standard
	Tl	**205**	**27.363**	ug/L	0.352	1	80	2445948	1	Standard
		208		ug/L	0.301	1	353	2894313	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:14:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1142800	2	Standard
	Be	**9**	**0.002**	ug/L	0.001	73	13	22	28	Standard
	C	**13**		ug/L			30879	36876	0	Standard
	Cl	**37**		ug/L			8137590	8229004	0	Standard
>	**Sc**	**45**		ug/L			1506324	1416283	0	Standard
	V	**51**	**0.022**	ug/L	0.005	23	7630	7817	1	Standard
	V-1	**51**	**0.000**	ug/L	0.000	608	137	129	2	Standard
		52		ug/L	0.015	16	22519	23374	1	Standard
	Cr	**53**	**0.015**	ug/L	0.007	41	148	182	10	Standard
	Mn	**55**	**-0.008**	ug/L	0.001	7	1780	1369	1	Standard
>	**Ge**	**72**		ug/L			97794	88839	1	KED
	Ni	**60**	**0.003**	ug/L	0.005	189	15	18	41	KED
	Ni	**62**	**0.012**	ug/L	0.004	38	2	5	21	KED
		63		ug/L	0.003	23	99	137	8	KED
	Cu	**65**	**-0.000**	ug/L	0.004	1034	53	47	17	KED
		66	**-**	ug/L	0.015	5	300	123	6	KED
	Zn	**67**	**-0.232**	ug/L	0.031	13	50	22	13	KED
		75	**-**	ug/L	0.001	121	4	3	7	KED
	Se	**78**	**0.021**	ug/L	0.064	298	11	10	19	KED
	Y	**89**		ug/L			893628	864866	0	Standard
	Kr	**83**		ug/L			62	58	27	Standard
>	**In-1**	**115**		ug/L			27117	23822	1	KED
		111		ug/L	0.003	1505	3	2	33	KED
	Cd	**114**	**0.003**	ug/L	0.002	79	3	5	34	KED
>	**In**	**115**		ug/L			1764814	1682038	0	Standard
		107		ug/L	0.000	7	70	130	4	Standard
	Sb	**121**	**-0.005**	ug/L	0.000	7	359	227	4	Standard
	Sb	**123**	**-0.006**	ug/L	0.001	21	300	177	12	Standard
	Ba	**135**	**0.002**	ug/L	0.002	73	33	46	23	Standard
	Ba	**137**	**0.002**	ug/L	0.002	80	55	76	23	Standard
>	**Tb**	**159**		ug/L			2798401	2746961	0	Standard
	Tl	**205**	**0.003**	ug/L	0.000	11	80	370	9	Standard
		208		ug/L	0.000	9	353	574	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:19:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1171016	2	Standard
	Be	**9**	**23.484**	ug/L	0.331	1	13	137762	1	Standard
	C	**13**		ug/L			30879	36167	1	Standard
	Cl	**37**		ug/L			8137590	8229753	1	Standard
>	**Sc**	**45**		ug/L			1506324	1436905	0	Standard
	V	**51**	**23.931**	ug/L	0.215	0	7630	719416	0	Standard
	V-1	**51**	**24.184**	ug/L	0.184	0	137	718168	0	Standard
		52		ug/L	0.202	0	22519	642378	0	Standard
	Cr	**53**	**25.522**	ug/L	0.241	0	148	72189	0	Standard
	Mn	**55**	**25.424**	ug/L	0.299	1	1780	992072	0	Standard
>	**Ge**	**72**		ug/L			97794	89255	0	KED
	Ni	**60**	**26.020**	ug/L	0.320	1	15	37891	0	KED
	Ni	**62**	**25.872**	ug/L	0.220	0	2	6166	0	KED
		63		ug/L	0.536	1	99	113755	1	KED
	Cu	**65**	**26.878**	ug/L	0.132	0	53	57423	0	KED
		66		ug/L	1.427	1	300	50380	1	KED
	Zn	**67**	**77.084**	ug/L	1.534	1	50	7845	2	KED
		75		ug/L	0.425	1	4	7285	1	KED
	Se	**78**	**76.419**	ug/L	0.301	0	11	2525	0	KED
	Y	**89**		ug/L			893628	872619	1	Standard
	Kr	**83**		ug/L			62	67	21	Standard
>	**In-1**	**115**		ug/L			27117	23614	0	KED
		111		ug/L	0.200	0	3	8456	1	KED
	Cd	**114**	**26.218**	ug/L	0.466	1	3	22005	1	KED
>	**In**	**115**		ug/L			1764814	1697802	0	Standard
		107		ug/L	0.331	1	70	619696	1	Standard
	Sb	**121**	**-0.006**	ug/L	0.001	24	359	206	16	Standard
	Sb	**123**	**-0.007**	ug/L	0.001	20	300	165	15	Standard
	Ba	**135**	**23.056**	ug/L	0.122	0	33	153543	0	Standard
	Ba	**137**	**22.822**	ug/L	0.120	0	55	254724	0	Standard
>	**Tb**	**159**		ug/L			2798401	2778174	0	Standard
	Tl	**205**	**27.833**	ug/L	0.143	0	80	2476892	1	Standard
		208		ug/L	0.160	0	353	2919173	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:24:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1104815	7	Standard
	Be	**9**	**0.154**	ug/L	0.012	7	13	862	1	Standard
	C	**13**		ug/L			30879	38811	0	Standard
	Cl	**37**		ug/L			8137590	8154636	0	Standard
>	**Sc**	**45**		ug/L			1506324	1458352	2	Standard
	V	**51**	**25.623**	ug/L	0.816	3	7630	780783	0	Standard
	V-1	**51**	**25.816**	ug/L	0.823	3	137	777623	0	Standard
		52		ug/L	0.445	3	22519	355554	0	Standard
	Cr	**53**	**13.629**	ug/L	0.540	3	148	39166	1	Standard
	Mn	**55**	**397.643**	ug/L	15.407	3	1780	15712028	1	Standard
>	**Ge**	**72**		ug/L			97794	87947	0	KED
	Ni	**60**	**17.367**	ug/L	0.204	1	15	24923	0	KED
	Ni	**62**	**17.654**	ug/L	0.122	0	2	4146	0	KED
		63		ug/L	0.113	0	99	47461	0	KED
	Cu	**65**	**11.440**	ug/L	0.091	0	53	24110	1	KED
		66		ug/L	0.638	2	300	14568	2	KED
	Zn	**67**	**22.651**	ug/L	1.170	5	50	2303	4	KED
		75		ug/L	0.110	4	4	747	3	KED
	Se	**78**	**0.388**	ug/L	0.108	27	11	22	15	KED
	Y	**89**		ug/L			893628	1047853	3	Standard
	Kr	**83**		ug/L			62	136	30	Standard
>	**In-1**	**115**		ug/L			27117	23043	1	KED
		111		ug/L	0.019	41	3	17	35	KED
	Cd	**114**	**0.046**	ug/L	0.006	13	3	40	12	KED
>	**In**	**115**		ug/L			1764814	1611671	3	Standard
		107		ug/L	0.002	5	70	814	5	Standard
	Sb	**121**	**-0.002**	ug/L	0.001	23	359	273	4	Standard
	Sb	**123**	**-0.004**	ug/L	0.000	8	300	198	6	Standard
	Ba	**135**	**16.992**	ug/L	0.741	4	33	107317	1	Standard
	Ba	**137**	**17.234**	ug/L	0.717	4	55	182425	0	Standard
>	**Tb**	**159**		ug/L			2798401	2823248	3	Standard
	Tl	**205**	**0.032**	ug/L	0.002	6	80	2938	2	Standard
	Pb	**208**	**1.618**	ug/L	0.067	4	353	197593	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:29:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1137379	2	Standard
	Be	**9**	**0.161**	ug/L	0.010	6	13	931	3	Standard
	C	**13**		ug/L			30879	40904	1	Standard
	Cl	**37**		ug/L			8137590	8214060	0	Standard
>	**Sc**	**45**		ug/L			1506324	1530133	0	Standard
	V	**51**	**25.071**	ug/L	0.270	1	7630	802222	0	Standard
	V-1	**51**	**25.243**	ug/L	0.261	1	137	798277	0	Standard
		52		ug/L	0.040	0	22519	358839	0	Standard
	Cr	**53**	**13.018**	ug/L	0.054	0	148	39287	0	Standard
	Mn	**55**	**420.366**	ug/L	3.994	0	1780	17440018	1	Standard
>	**Ge**	**72**		ug/L			97794	87698	0	KED
	Ni	**60**	**17.444**	ug/L	0.115	0	15	24965	1	KED
	Ni	**62**	**17.208**	ug/L	0.768	4	2	4029	3	KED
		63		ug/L	0.087	0	99	55478	0	KED
	Cu	**65**	**13.458**	ug/L	0.089	0	53	28276	1	KED
		66		ug/L	0.292	1	300	16387	0	KED
	Zn	**67**	**26.500**	ug/L	0.994	3	50	2678	2	KED
		75		ug/L	0.051	1	4	843	2	KED
	Se	**78**	**0.608**	ug/L	0.107	17	11	29	12	KED
	Y	**89**		ug/L			893628	1117635	1	Standard
	Kr	**83**		ug/L			62	135	12	Standard
>	**In-1**	**115**		ug/L			27117	23310	0	KED
		111		ug/L	0.006	18	3	13	14	KED
	Cd	**114**	**0.049**	ug/L	0.005	9	3	43	9	KED
>	**In**	**115**		ug/L			1764814	1680694	0	Standard
		107		ug/L	0.001	3	70	1057	3	Standard
	Sb	**121**	**-0.004**	ug/L	0.000	4	359	246	1	Standard
	Sb	**123**	**-0.006**	ug/L	0.001	22	300	183	12	Standard
	Ba	**135**	**17.945**	ug/L	0.083	0	33	118309	0	Standard
	Ba	**137**	**18.060**	ug/L	0.137	0	55	199550	0	Standard
>	**Tb**	**159**		ug/L			2798401	2904340	0	Standard
	Tl	**205**	**0.028**	ug/L	0.000	0	80	2713	0	Standard
	Pb	**208**	**2.198**	ug/L	0.006	0	353	276310	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:34:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1120390	1	Standard
	Be	**9**	**0.202**	ug/L	0.004	2	13	1148	1	Standard
	C	**13**		ug/L			30879	42271	2	Standard
	Cl	**37**		ug/L			8137590	8066734	1	Standard
>	**Sc**	**45**		ug/L			1506324	1534141	1	Standard
	V	**51**	**29.478**	ug/L	0.144	0	7630	944381	2	Standard
	V-1	**51**	**29.711**	ug/L	0.108	0	137	942050	2	Standard
		52		ug/L	0.166	1	22519	468106	1	Standard
	Cr	**53**	**17.254**	ug/L	0.162	0	148	52150	0	Standard
	Mn	**55**	**198.143**	ug/L	1.964	0	1780	8241863	0	Standard
>	**Ge**	**72**		ug/L			97794	86848	0	KED
	Ni	**60**	**21.439**	ug/L	0.203	0	15	30380	0	KED
	Ni	**62**	**21.328**	ug/L	0.303	1	2	4946	1	KED
		63		ug/L	0.307	1	99	80443	1	KED
	Cu	**65**	**19.434**	ug/L	0.347	1	53	40411	1	KED
		66		ug/L	0.399	0	300	25544	1	KED
	Zn	**67**	**40.369**	ug/L	0.572	1	50	4018	1	KED
		75		ug/L	0.082	2	4	1149	1	KED
	Se	**78**	**0.583**	ug/L	0.124	21	11	28	13	KED
	Y	**89**		ug/L			893628	1135447	0	Standard
	Kr	**83**		ug/L			62	140	8	Standard
>	**In-1**	**115**		ug/L			27117	23121	1	KED
		111		ug/L	0.011	11	3	32	11	KED
	Cd	**114**	**0.076**	ug/L	0.022	29	3	65	29	KED
>	**In**	**115**		ug/L			1764814	1645263	1	Standard
		107		ug/L	0.004	5	70	1748	4	Standard
	Sb	**121**	**-0.002**	ug/L	0.001	56	359	277	11	Standard
	Sb	**123**	**-0.004**	ug/L	0.001	27	300	213	7	Standard
	Ba	**135**	**20.348**	ug/L	0.515	2	33	131293	1	Standard
	Ba	**137**	**20.285**	ug/L	0.437	2	55	219362	0	Standard
>	**Tb**	**159**		ug/L			2798401	2914210	0	Standard
	Tl	**205**	**0.031**	ug/L	0.001	3	80	3013	3	Standard
	Pb	**208**	**5.226**	ug/L	0.019	0	353	658770	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:39:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1127237	2	Standard
⌊	**Be**	**9**	**0.164**	ug/L	0.015	9	13	939	6	Standard
	C	**13**		ug/L			30879	40142	0	Standard
	Cl	**37**		ug/L			8137590	8085351	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1516936	2	Standard
⌈	**V**	**51**	**24.582**	ug/L	0.607	2	7630	779619	0	Standard
⌈	**V-1**	**51**	**24.778**	ug/L	0.682	2	137	776455	0	Standard
⌈	[redacted]	**52**	[redacted]	ug/L	0.315	2	22519	386473	0	Standard
⌈	**Cr**	**53**	**14.273**	ug/L	0.551	3	148	42659	1	Standard
⌊	**Mn**	**55**	**218.883**	ug/L	6.472	2	1780	8999307	1	Standard
⌈>	**Ge**	**72**		ug/L			97794	87903	0	KED
⌈	**Ni**	**60**	**18.316**	ug/L	0.160	0	15	26272	0	KED
⌈	**Ni**	**62**	**18.060**	ug/L	0.454	2	2	4239	2	KED
⌈	[redacted]	**63**	[redacted]	ug/L	0.198	1	99	59114	1	KED
⌈	**Cu**	**65**	**14.018**	ug/L	0.042	0	53	29518	0	KED
⌈	[redacted]	**66**	[redacted]	ug/L	0.426	1	300	18624	1	KED
⌈	**Zn**	**67**	**28.954**	ug/L	0.228	0	50	2930	0	KED
⌈	[redacted]	**75**	[redacted]	ug/L	0.027	0	4	875	0	KED
⌊	**Se**	**78**	**0.451**	ug/L	0.159	35	11	24	20	KED
	Y	**89**		ug/L			893628	1113945	1	Standard
	Kr	**83**		ug/L			62	138	8	Standard
⌈>	**In-1**	**115**		ug/L			27117	22637	0	KED
⌈	[redacted]	**111**	[redacted]	ug/L	0.020	56	3	13	45	KED
⌊	**Cd**	**114**	**0.046**	ug/L	0.008	17	3	40	15	KED
⌈>	**In**	**115**		ug/L			1764814	1665795	2	Standard
⌈	[redacted]	**107**	[redacted]	ug/L	0.002	3	70	1367	1	Standard
⌈	**Sb**	**121**	**-0.005**	ug/L	0.000	5	359	218	5	Standard
⌈	**Sb**	**123**	**-0.008**	ug/L	0.000	4	300	141	5	Standard
⌈	**Ba**	**135**	**15.680**	ug/L	0.194	1	33	102445	1	Standard
⌊	**Ba**	**137**	**15.829**	ug/L	0.300	1	55	173310	0	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2927776	1	Standard
⌈	**Tl**	**205**	**0.024**	ug/L	0.001	4	80	2360	2	Standard
⌊	**Pb**	**208**	**2.055**	ug/L	0.038	1	353	260407	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:44:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1108713	1	Standard
⌊	**Be**	**9**	**0.174**	ug/L	0.005	2	13	977	1	Standard
	C	**13**		ug/L			30879	41568	0	Standard
	Cl	**37**		ug/L			8137590	8080385	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1528071	0	Standard
⌈	**V**	**51**	**26.231**	ug/L	0.161	0	7630	837832	0	Standard
⌈	**V-1**	**51**	**26.478**	ug/L	0.207	0	137	836168	0	Standard
⌈		**52**		ug/L	0.245	1	22519	395302	0	Standard
⌈	**Cr**	**53**	**14.653**	ug/L	0.362	2	148	44136	1	Standard
⌊	**Mn**	**55**	**233.710**	ug/L	7.149	3	1780	9682038	2	Standard
⌈>	**Ge**	**72**		ug/L			97794	87693	0	KED
⌈	**Ni**	**60**	**16.767**	ug/L	0.384	2	15	23992	1	KED
⌈	**Ni**	**62**	**16.720**	ug/L	0.318	1	2	3916	1	KED
⌈		**63**		ug/L	0.167	1	99	52214	0	KED
⌈	**Cu**	**65**	**12.458**	ug/L	0.098	0	53	26176	1	KED
⌈		**66**		ug/L	0.235	0	300	15857	0	KED
⌈	**Zn**	**67**	**25.197**	ug/L	0.446	1	50	2550	2	KED
⌈		**75**		ug/L	0.057	2	4	682	2	KED
⌊	**Se**	**78**	**0.535**	ug/L	0.070	13	11	27	8	KED
	Y	**89**		ug/L			893628	1131888	1	Standard
	Kr	**83**		ug/L			62	135	9	Standard
⌈>	**In-1**	**115**		ug/L			27117	23003	0	KED
⌈		**111**		ug/L	0.002	4	3	16	3	KED
⌊	**Cd**	**114**	**0.037**	ug/L	0.004	10	3	33	9	KED
⌈>	**In**	**115**		ug/L			1764814	1660043	1	Standard
⌈		**107**		ug/L	0.002	4	70	964	3	Standard
⌈	**Sb**	**121**	**-0.006**	ug/L	0.001	16	359	194	11	Standard
⌈	**Sb**	**123**	**-0.007**	ug/L	0.001	7	300	151	5	Standard
⌈	**Ba**	**135**	**20.573**	ug/L	0.130	0	33	133958	1	Standard
⌊	**Ba**	**137**	**20.766**	ug/L	0.257	1	55	226604	0	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2920669	0	Standard
⌈	**Tl**	**205**	**0.038**	ug/L	0.000	0	80	3643	0	Standard
⌊	**Pb**	**208**	**1.509**	ug/L	0.023	1	353	190848	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:49:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1112857	3	Standard
	Be	**9**	**0.162**	ug/L	0.002	1	13	917	4	Standard
	C	**13**		ug/L			30879	38445	1	Standard
	Cl	**37**		ug/L			8137590	8090127	1	Standard
>	**Sc**	**45**		ug/L			1506324	1519789	1	Standard
	V	**51**	**26.845**	ug/L	0.179	0	7630	852648	1	Standard
	V-1	**51**	**27.049**	ug/L	0.115	0	137	849582	1	Standard
		52		ug/L	0.183	1	22519	401558	0	Standard
	Cr	**53**	**14.818**	ug/L	0.066	0	148	44395	1	Standard
	Mn	**55**	**242.283**	ug/L	1.755	0	1780	9984311	1	Standard
>	**Ge**	**72**		ug/L			97794	86466	1	KED
	Ni	**60**	**18.275**	ug/L	0.441	2	15	25779	0	KED
	Ni	**62**	**18.251**	ug/L	0.439	2	2	4214	2	KED
		63		ug/L	0.041	0	99	52438	1	KED
	Cu	**65**	**12.696**	ug/L	0.020	0	53	26302	1	KED
		66		ug/L	0.629	2	300	18369	2	KED
	Zn	**67**	**28.439**	ug/L	0.675	2	50	2831	0	KED
		75		ug/L	0.093	3	4	781	2	KED
	Se	**78**	**0.470**	ug/L	0.132	28	11	24	15	KED
	Y	**89**		ug/L			893628	1133057	2	Standard
	Kr	**83**		ug/L			62	119	16	Standard
>	**In-1**	**115**		ug/L			27117	23481	1	KED
		111		ug/L	0.007	16	3	17	14	KED
	Cd	**114**	**0.048**	ug/L	0.014	30	3	43	26	KED
>	**In**	**115**		ug/L			1764814	1674510	1	Standard
		107		ug/L	0.003	5	70	1201	4	Standard
	Sb	**121**	**-0.004**	ug/L	0.001	18	359	250	7	Standard
	Sb	**123**	**-0.005**	ug/L	0.001	17	300	201	8	Standard
	Ba	**135**	**18.044**	ug/L	0.199	1	33	118516	0	Standard
	Ba	**137**	**18.219**	ug/L	0.385	2	55	200533	1	Standard
>	**Tb**	**159**		ug/L			2798401	2930522	1	Standard
	Tl	**205**	**0.031**	ug/L	0.001	2	80	2959	1	Standard
	Pb	**208**	**2.099**	ug/L	0.030	1	353	266202	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:57:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1109855	2	Standard
	Be	**9**	**48.947**	ug/L	0.710	1	13	272127	1	Standard
	C	**13**		ug/L			30879	29818	1	Standard
	Cl	**37**		ug/L			8137590	8492651	0	Standard
>	**Sc**	**45**		ug/L			1506324	1377382	1	Standard
	V	**51**	**47.884**	ug/L	0.749	1	7630	1373034	2	Standard
	V-1	**51**	**48.524**	ug/L	0.692	1	137	1381293	2	Standard
	Cr	**52**	**48.603**	ug/L	0.387	0	22519	1193248	0	Standard
	Cr	**53**	**50.759**	ug/L	0.960	1	148	137478	0	Standard
	Mn	**55**	**50.411**	ug/L	0.542	1	1780	1883881	0	Standard
>	**Ge**	**72**		ug/L			97794	85611	1	KED
	Ni	**60**	**51.554**	ug/L	0.218	0	15	71994	0	KED
	Ni	**62**	**51.145**	ug/L	0.068	0	2	11690	1	KED
	Cu	**63**	**52.028**	ug/L	0.882	1	99	211276	0	KED
	Cu	**65**	**51.984**	ug/L	0.654	1	53	106475	0	KED
	Zn	**66**	**52.253**	ug/L	0.284	0	300	31090	1	KED
	Zn	**67**	**51.503**	ug/L	0.791	1	50	5042	1	KED
	As	**75**	**50.613**	ug/L	0.852	1	4	14357	0	KED
	Se	**78**	**51.107**	ug/L	0.957	1	11	1623	0	KED
	Y	**89**		ug/L			893628	846604	1	Standard
	Kr	**83**		ug/L			62	58	26	Standard
>	**In-1**	**115**		ug/L			27117	23379	0	KED
	Cd	**111**	**51.668**	ug/L	0.260	0	3	16611	0	KED
	Cd	**114**	**52.351**	ug/L	0.467	0	3	43499	0	KED
>	**In**	**115**		ug/L			1764814	1640870	0	Standard
	Ag	**107**	**50.683**	ug/L	0.742	1	70	1155507	1	Standard
	Sb	**121**	**47.178**	ug/L	0.152	0	359	1144413	0	Standard
	Sb	**123**	**49.434**	ug/L	0.185	0	300	868341	0	Standard
	Ba	**135**	**46.076**	ug/L	0.433	0	33	296516	0	Standard
	Ba	**137**	**45.944**	ug/L	0.373	0	55	495543	0	Standard
>	**Tb**	**159**		ug/L			2798401	2779426	0	Standard
	Tl	**205**	**52.185**	ug/L	0.544	1	80	4645666	0	Standard
	Pb	**208**	**49.052**	ug/L	0.129	0	353	5894364	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:05:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1108884	3	Standard
	Be	**9**	**0.001**	ug/L	0.002	188	13	18	53	Standard
	C	**13**		ug/L			30879	30077	1	Standard
	Cl	**37**		ug/L			8137590	8097518	0	Standard
>	**Sc**	**45**		ug/L			1506324	1399010	1	Standard
	V	**51**	**0.023**	ug/L	0.004	15	7630	7750	1	Standard
	V-1	**51**	**0.000**	ug/L	0.000	160	137	132	6	Standard
	Cr	**52**	**0.071**	ug/L	0.012	16	22519	22659	0	Standard
	Cr	**53**	**-0.005**	ug/L	0.006	128	148	124	13	Standard
	Mn	**55**	**-0.011**	ug/L	0.001	5	1780	1224	0	Standard
>	**Ge**	**72**		ug/L			97794	87465	2	KED
	Ni	**60**	**0.000**	ug/L	0.003	1131	15	14	30	KED
	Ni	**62**	**0.012**	ug/L	0.005	37	2	5	21	KED
	Cu	**63**	**0.006**	ug/L	0.003	42	99	116	11	KED
	Cu	**65**	**0.010**	ug/L	0.003	33	53	69	8	KED
	Zn	**66**	**-0.129**	ug/L	0.024	18	300	191	8	KED
	Zn	**67**	**-0.164**	ug/L	0.049	30	50	28	17	KED
	As	**75**	**-0.003**	ug/L	0.003	106	4	2	33	KED
	Se	**78**	**-0.007**	ug/L	0.078	1079	11	9	24	KED
	Y	**89**		ug/L			893628	826241	2	Standard
	Kr	**83**		ug/L			62	63	19	Standard
>	**In-1**	**115**		ug/L			27117	23251	0	KED
	Cd	**111**	**0.001**	ug/L	0.002	116	3	3	17	KED
	Cd	**114**	**-0.001**	ug/L	0.003	259	3	2	90	KED
>	**In**	**115**		ug/L			1764814	1650274	1	Standard
	Ag	**107**	**0.004**	ug/L	0.001	25	70	151	13	Standard
	Sb	**121**	**0.029**	ug/L	0.000	1	359	1051	0	Standard
	Sb	**123**	**0.030**	ug/L	0.003	10	300	808	8	Standard
	Ba	**135**	**0.030**	ug/L	0.004	11	33	226	10	Standard
	Ba	**137**	**0.034**	ug/L	0.002	4	55	419	5	Standard
>	**Tb**	**159**		ug/L			2798401	2721232	1	Standard
	Tl	**205**	**0.002**	ug/L	0.000	9	80	271	6	Standard
	Pb	**208**	**0.003**	ug/L	0.000	6	353	732	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:10:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1026337	1	Standard
	Be	**9**	**0.002**	ug/L	0.002	69	13	23	32	Standard
	C	**13**		ug/L			30879	41904	0	Standard
	Cl	**37**		ug/L			8137590	7598114	0	Standard
>	**Sc**	**45**		ug/L			1506324	1185127	0	Standard
		51		ug/L	0.023	1	7630	47222	0	Standard
	V-1	**51**	**1.752**	ug/L	0.008	0	137	43013	0	Standard
	Cr	**52**	**1.537**	ug/L	0.023	1	22519	49626	0	Standard
	Cr	**53**	**1.780**	ug/L	0.045	2	148	4261	2	Standard
	Mn	**55**	**4.506**	ug/L	0.052	1	1780	146182	1	Standard
>	**Ge**	**72**		ug/L			97794	69944	0	KED
	Ni	**60**	**1.871**	ug/L	0.072	3	15	2145	3	KED
	Ni	**62**	**1.833**	ug/L	0.147	8	2	344	8	KED
	Cu	**63**	**3.134**	ug/L	0.066	2	99	10467	2	KED
	Cu	**65**	**3.105**	ug/L	0.080	2	53	5232	2	KED
	Zn	**66**	**1.288**	ug/L	0.085	6	300	836	4	KED
	Zn	**67**	**5.113**	ug/L	0.077	1	50	441	1	KED
		75		ug/L	0.104	0	4	2425	1	KED
	Se	**78**	**0.699**	ug/L	0.080	11	11	26	7	KED
	Y	**89**		ug/L			893628	730987	0	Standard
	Kr	**83**		ug/L			62	91	16	Standard
>	**In-1**	**115**		ug/L			27117	18744	0	KED
	Cd	**111**	**0.044**	ug/L	0.004	9	3	13	8	KED
	Cd	**114**	**0.043**	ug/L	0.017	38	3	31	35	KED
>	**In**	**115**		ug/L			1764814	1348001	0	Standard
	Ag	**107**	**0.006**	ug/L	0.001	10	70	174	7	Standard
	Sb	**121**	**6.948**	ug/L	0.086	1	359	138693	1	Standard
	Sb	**123**	**7.307**	ug/L	0.060	0	300	105645	0	Standard
	Ba	**135**	**73.027**	ug/L	0.253	0	33	386072	0	Standard
	Ba	**137**	**73.556**	ug/L	0.600	0	55	651730	0	Standard
>	**Tb**	**159**		ug/L			2798401	2483902	0	Standard
	Tl	**205**	**0.252**	ug/L	0.004	1	80	20113	2	Standard
	Pb	**208**	**25.269**	ug/L	0.115	0	353	2713812	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:15:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1031167	1	Standard
	Be	**9**	**0.006**	ug/L	0.002	40	13	41	30	Standard
	C	**13**		ug/L			30879	43171	1	Standard
	Cl	**37**		ug/L			8137590	7619068	0	Standard
>	**Sc**	**45**		ug/L			1506324	1188970	1	Standard
		51		ug/L	0.016	0	7630	48080	0	Standard
	V-1	**51**	**1.776**	ug/L	0.015	0	137	43730	0	Standard
	Cr	**52**	**1.659**	ug/L	0.017	1	22519	52319	0	Standard
	Cr	**53**	**1.885**	ug/L	0.013	0	148	4520	0	Standard
	Mn	**55**	**4.604**	ug/L	0.012	0	1780	149811	0	Standard
>	**Ge**	**72**		ug/L			97794	70406	0	KED
	Ni	**60**	**1.941**	ug/L	0.054	2	15	2240	3	KED
	Ni	**62**	**2.126**	ug/L	0.153	7	2	401	6	KED
	Cu	**63**	**3.489**	ug/L	0.058	1	99	11720	0	KED
	Cu	**65**	**3.537**	ug/L	0.085	2	53	5994	1	KED
	Zn	**66**	**5.948**	ug/L	0.227	3	300	3101	2	KED
	Zn	**67**	**7.894**	ug/L	0.390	4	50	666	4	KED
		75		ug/L	0.032	0	4	2615	0	KED
	Se	**78**	**0.707**	ug/L	0.082	11	11	26	7	KED
	Y	**89**		ug/L			893628	722609	1	Standard
	Kr	**83**		ug/L			62	86	9	Standard
>	**In-1**	**115**		ug/L			27117	18594	2	KED
	Cd	**111**	**0.051**	ug/L	0.018	34	3	15	31	KED
	Cd	**114**	**0.036**	ug/L	0.013	37	3	25	32	KED
>	**In**	**115**		ug/L			1764814	1360503	0	Standard
	Ag	**107**	**0.010**	ug/L	0.002	17	70	249	14	Standard
	Sb	**121**	**6.577**	ug/L	0.024	0	359	132508	0	Standard
	Sb	**123**	**6.832**	ug/L	0.010	0	300	99700	0	Standard
	Ba	**135**	**48.074**	ug/L	0.457	0	33	256509	0	Standard
	Ba	**137**	**48.150**	ug/L	0.485	1	55	430582	0	Standard
>	**Tb**	**159**		ug/L			2798401	2521357	0	Standard
	Tl	**205**	**0.235**	ug/L	0.005	2	80	19039	1	Standard
	Pb	**208**	**16.790**	ug/L	0.153	0	353	1830489	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:20:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1056077	1	Standard
	Be	**9**	**0.002**	ug/L	0.002	117	13	20	48	Standard
	C	**13**		ug/L			30879	43335	0	Standard
	Cl	**37**		ug/L			8137590	7564155	0	Standard
>	**Sc**	**45**		ug/L			1506324	1173852	1	Standard
		51		ug/L	0.037	3	7630	35270	2	Standard
	V-1	**51**	**1.278**	ug/L	0.032	2	137	31102	2	Standard
	Cr	**52**	**1.533**	ug/L	0.027	1	22519	49067	1	Standard
	Cr	**53**	**1.776**	ug/L	0.012	0	148	4211	1	Standard
	Mn	**55**	**4.493**	ug/L	0.067	1	1780	144376	1	Standard
>	**Ge**	**72**		ug/L			97794	71000	0	KED
	Ni	**60**	**1.920**	ug/L	0.018	0	15	2235	0	KED
	Ni	**62**	**1.963**	ug/L	0.055	2	2	373	2	KED
	Cu	**63**	**3.334**	ug/L	0.044	1	99	11297	1	KED
	Cu	**65**	**3.346**	ug/L	0.027	0	53	5721	0	KED
	Zn	**66**	**4.338**	ug/L	0.136	3	300	2341	3	KED
	Zn	**67**	**7.309**	ug/L	0.414	5	50	624	5	KED
	As	**75**	**8.912**	ug/L	0.166	1	4	2099	1	KED
	Se	**78**	**0.813**	ug/L	0.208	25	11	29	18	KED
	Y	**89**		ug/L			893628	723524	2	Standard
	Kr	**83**		ug/L			62	113	5	Standard
>	**In-1**	**115**		ug/L			27117	19116	1	KED
	Cd	**111**	**0.054**	ug/L	0.043	80	3	16	69	KED
	Cd	**114**	**0.028**	ug/L	0.006	20	3	21	18	KED
>	**In**	**115**		ug/L			1764814	1348524	1	Standard
	Ag	**107**	**0.006**	ug/L	0.000	5	70	175	4	Standard
	Sb	**121**	**6.074**	ug/L	0.109	1	359	121312	0	Standard
	Sb	**123**	**6.382**	ug/L	0.069	1	300	92320	0	Standard
	Ba	**135**	**61.924**	ug/L	0.769	1	33	327468	0	Standard
	Ba	**137**	**61.851**	ug/L	0.592	0	55	548195	0	Standard
>	**Tb**	**159**		ug/L			2798401	2520039	1	Standard
	Tl	**205**	**0.274**	ug/L	0.003	0	80	22170	0	Standard
	Pb	**208**	**22.768**	ug/L	0.346	1	353	2480657	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:26:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1033216	1	Standard
	Be	**9**	**0.012**	ug/L	0.009	72	13	74	60	Standard
	C	**13**		ug/L			30879	40864	0	Standard
	Cl	**37**		ug/L			8137590	7687544	1	Standard
>	**Sc**	**45**		ug/L			1506324	1197193	2	Standard
		51		ug/L	0.024	2	7630	30660	1	Standard
	V-1	**51**	**1.051**	ug/L	0.023	2	137	26103	2	Standard
	Cr	**52**	**1.354**	ug/L	0.032	2	22519	46282	1	Standard
	Cr	**53**	**1.554**	ug/L	0.037	2	148	3772	3	Standard
	Mn	**55**	**1.410**	ug/L	0.038	2	1780	47185	3	Standard
>	**Ge**	**72**		ug/L			97794	74319	0	KED
	Ni	**60**	**1.574**	ug/L	0.055	3	15	1919	3	KED
	Ni	**62**	**1.552**	ug/L	0.089	5	2	309	5	KED
	Cu	**63**	**2.301**	ug/L	0.030	1	99	8183	1	KED
	Cu	**65**	**2.266**	ug/L	0.046	2	53	4068	2	KED
	Zn	**66**	**0.387**	ug/L	0.002	0	300	426	0	KED
	Zn	**67**	**0.791**	ug/L	0.276	34	50	104	22	KED
		75		ug/L	0.111	1	4	1971	1	KED
	Se	**78**	**0.624**	ug/L	0.141	22	11	25	14	KED
	Y	**89**		ug/L			893628	726625	1	Standard
	Kr	**83**		ug/L			62	108	4	Standard
>	**In-1**	**115**		ug/L			27117	20165	1	KED
	Cd	**111**	**0.033**	ug/L	0.008	25	3	11	22	KED
	Cd	**114**	**0.025**	ug/L	0.015	58	3	20	50	KED
>	**In**	**115**		ug/L			1764814	1391939	0	Standard
	Ag	**107**	**0.018**	ug/L	0.011	60	70	394	51	Standard
		121		ug/L	0.045	0	359	119097	1	Standard
	Sb	**123**	**6.072**	ug/L	0.067	1	300	90678	0	Standard
	Ba	**135**	**13.049**	ug/L	0.096	0	33	71259	1	Standard
	Ba	**137**	**12.950**	ug/L	0.104	0	55	118521	1	Standard
>	**Tb**	**159**		ug/L			2798401	2544818	0	Standard
	Tl	**205**	**0.245**	ug/L	0.015	5	80	20023	5	Standard
		208		ug/L	0.047	11	353	43627	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:34:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1089453	0	Standard
	Be	**9**	**0.185**	ug/L	0.009	4	13	1020	4	Standard
	C	**13**		ug/L			30879	40610	0	Standard
	Cl	**37**		ug/L			8137590	8251971	0	Standard
>	**Sc**	**45**		ug/L			1506324	1446013	0	Standard
	V	**51**	**23.661**	ug/L	0.077	0	7630	715901	0	Standard
	V-1	**51**	**23.842**	ug/L	0.042	0	137	712519	0	Standard
		52		ug/L	0.184	1	22519	292089	1	Standard
	Cr	**53**	**11.186**	ug/L	0.263	2	148	31924	3	Standard
	Mn	**55**	**188.230**	ug/L	2.890	1	1780	7381058	2	Standard
>	**Ge**	**72**		ug/L			97794	89716	0	KED
	Ni	**60**	**7.855**	ug/L	0.039	0	15	11508	0	KED
	Ni	**62**	**7.972**	ug/L	0.198	2	2	1911	3	KED
		63		ug/L	0.096	0	99	63160	0	KED
	Cu	**65**	**14.787**	ug/L	0.249	1	53	31777	1	KED
		66		ug/L	0.591	1	300	22623	0	KED
	Zn	**67**	**36.384**	ug/L	1.361	3	50	3745	2	KED
		75		ug/L	0.078	1	4	2304	0	KED
	Se	**78**	**0.450**	ug/L	0.134	29	11	25	18	KED
	Y	**89**		ug/L			893628	1019759	0	Standard
	Kr	**83**		ug/L			62	124	16	Standard
>	**In-1**	**115**		ug/L			27117	24402	1	KED
		111		ug/L	0.014	31	3	17	27	KED
	Cd	**114**	**0.038**	ug/L	0.012	32	3	36	29	KED
>	**In**	**115**		ug/L			1764814	1640512	1	Standard
		107		ug/L	0.001	1	70	2099	2	Standard
	Sb	**121**	**0.030**	ug/L	0.001	3	359	1066	1	Standard
	Sb	**123**	**0.031**	ug/L	0.002	6	300	817	4	Standard
	Ba	**135**	**23.439**	ug/L	0.377	1	33	150801	0	Standard
	Ba	**137**	**23.510**	ug/L	0.469	1	55	253505	1	Standard
>	**Tb**	**159**		ug/L			2798401	2956083	1	Standard
	Tl	**205**	**0.027**	ug/L	0.001	4	80	2676	5	Standard
		208		ug/L	0.105	1	353	1056172	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:39:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1096677	2	Standard
	Be	**9**	**0.141**	ug/L	0.012	8	13	784	6	Standard
	C	**13**		ug/L			30879	40454	0	Standard
	Cl	**37**		ug/L			8137590	8209490	0	Standard
>	**Sc**	**45**		ug/L			1506324	1436152	1	Standard
	V	**51**	**25.549**	ug/L	0.433	1	7630	767047	0	Standard
	V-1	**51**	**25.715**	ug/L	0.377	1	137	763152	0	Standard
		52		ug/L	0.201	2	22519	267950	0	Standard
	Cr	**53**	**10.239**	ug/L	0.156	1	148	29032	2	Standard
	Mn	**55**	**195.457**	ug/L	1.818	0	1780	7611516	1	Standard
>	**Ge**	**72**		ug/L			97794	90227	0	KED
	Ni	**60**	**8.050**	ug/L	0.176	2	15	11859	1	KED
	Ni	**62**	**8.152**	ug/L	0.186	2	2	1965	2	KED
		63		ug/L	0.061	0	99	67619	0	KED
	Cu	**65**	**15.870**	ug/L	0.467	2	53	34291	2	KED
		66		ug/L	0.424	1	300	23232	0	KED
	Zn	**67**	**35.171**	ug/L	0.916	2	50	3643	2	KED
		75		ug/L	0.068	1	4	1987	0	KED
	Se	**78**	**0.603**	ug/L	0.147	24	11	30	16	KED
	Y	**89**		ug/L			893628	1049791	0	Standard
	Kr	**83**		ug/L			62	119	6	Standard
>	**In-1**	**115**		ug/L			27117	21454	19	KED
		111		ug/L	0.017	31	3	17	11	KED
	Cd	**114**	**0.049**	ug/L	0.020	41	3	38	22	KED
>	**In**	**115**		ug/L			1764814	1653332	0	Standard
		107		ug/L	0.002	3	70	1400	4	Standard
	Sb	**121**	**0.005**	ug/L	0.001	22	359	448	6	Standard
	Sb	**123**	**0.002**	ug/L	0.001	72	300	316	7	Standard
	Ba	**135**	**21.805**	ug/L	0.162	0	33	141404	0	Standard
	Ba	**137**	**22.083**	ug/L	0.223	1	55	240009	0	Standard
>	**Tb**	**159**		ug/L			2798401	2970825	0	Standard
	Tl	**205**	**0.023**	ug/L	0.001	2	80	2313	2	Standard
		208		ug/L	0.059	0	353	1132655	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:44:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1098152	2	Standard
	Be	**9**	**24.231**	ug/L	0.209	0	13	133308	1	Standard
	C	**13**		ug/L			30879	39909	0	Standard
	Cl	**37**		ug/L			8137590	8289854	0	Standard
>	**Sc**	**45**		ug/L			1506324	1455010	1	Standard
	V	**51**	**47.611**	ug/L	0.879	1	7630	1441849	1	Standard
	V-1	**51**	**48.044**	ug/L	0.929	1	137	1444406	1	Standard
		52		ug/L	0.371	1	22519	862760	0	Standard
	Cr	**53**	**34.346**	ug/L	0.584	1	148	98309	0	Standard
	Mn	**55**	**206.799**	ug/L	1.715	0	1780	8158617	0	Standard
>	**Ge**	**72**		ug/L			97794	90046	0	KED
	Ni	**60**	**34.072**	ug/L	0.442	1	15	50050	0	KED
	Ni	**62**	**34.608**	ug/L	1.027	2	2	8321	3	KED
		63		ug/L	0.574	1	99	179308	0	KED
	Cu	**65**	**42.081**	ug/L	0.198	0	53	90675	0	KED
		66		ug/L	1.051	0	300	72553	0	KED
	Zn	**67**	**110.679**	ug/L	2.310	2	50	11344	2	KED
		75		ug/L	0.261	0	4	9047	0	KED
	Se	**78**	**75.543**	ug/L	0.607	0	11	2519	0	KED
	Y	**89**		ug/L			893628	1039743	0	Standard
	Kr	**83**		ug/L			62	130	5	Standard
>	**In-1**	**115**		ug/L			27117	23534	0	KED
		111		ug/L	0.136	0	3	8496	0	KED
	Cd	**114**	**26.188**	ug/L	0.078	0	3	21905	0	KED
>	**In**	**115**		ug/L			1764814	1640955	0	Standard
		107		ug/L	0.462	2	70	434054	2	Standard
	Sb	**121**	**0.003**	ug/L	0.001	32	359	416	6	Standard
	Sb	**123**	**0.001**	ug/L	0.002	252	300	290	9	Standard
	Ba	**135**	**47.057**	ug/L	0.590	1	33	302841	0	Standard
	Ba	**137**	**47.653**	ug/L	0.643	1	55	513969	0	Standard
>	**Tb**	**159**		ug/L			2798401	2992942	0	Standard
	Tl	**205**	**25.199**	ug/L	0.301	1	80	2415628	0	Standard
		208		ug/L	0.232	0	353	4369761	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:49:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1076010	1	Standard
	Be	**9**	**25.181**	ug/L	0.441	1	13	135737	0	Standard
	C	**13**		ug/L			30879	39586	0	Standard
	Cl	**37**		ug/L			8137590	8235264	0	Standard
>	**Sc**	**45**		ug/L			1506324	1450761	1	Standard
	V	**51**	**47.592**	ug/L	0.748	1	7630	1437098	0	Standard
	V-1	**51**	**48.071**	ug/L	0.963	2	137	1441002	1	Standard
	[redacted]	**52**	[redacted]	ug/L	0.265	0	22519	868814	1	Standard
	Cr	**53**	**34.835**	ug/L	0.644	1	148	99424	1	Standard
	Mn	**55**	**204.525**	ug/L	2.082	1	1780	8045199	0	Standard
>	**Ge**	**72**		ug/L			97794	89577	1	KED
	Ni	**60**	**33.789**	ug/L	0.370	1	15	49374	0	KED
	Ni	**62**	**34.217**	ug/L	0.780	2	2	8183	1	KED
	[redacted]	**63**	[redacted]	ug/L	0.643	1	99	176805	2	KED
	Cu	**65**	**41.695**	ug/L	0.690	1	53	89364	0	KED
	[redacted]	**66**	[redacted]	ug/L	0.413	0	300	71927	0	KED
	Zn	**67**	**112.327**	ug/L	0.900	0	50	11452	0	KED
	[redacted]	**75**	[redacted]	ug/L	0.215	0	4	9039	0	KED
	Se	**78**	**76.613**	ug/L	0.780	1	11	2541	2	KED
	Y	**89**		ug/L			893628	1070947	1	Standard
	Kr	**83**		ug/L			62	138	15	Standard
>	**In-1**	**115**		ug/L			27117	23668	1	KED
	[redacted]	**111**	[redacted]	ug/L	0.578	2	3	8497	1	KED
	Cd	**114**	**26.274**	ug/L	0.279	1	3	22101	0	KED
>	**In**	**115**		ug/L			1764814	1663723	1	Standard
	[redacted]	**107**	[redacted]	ug/L	0.475	2	70	525401	2	Standard
	Sb	**121**	**0.038**	ug/L	0.002	5	359	1284	3	Standard
	Sb	**123**	**0.042**	ug/L	0.001	1	300	1035	0	Standard
	Ba	**135**	**77.703**	ug/L	1.325	1	33	506955	1	Standard
	Ba	**137**	**79.066**	ug/L	0.888	1	55	864555	0	Standard
>	**Tb**	**159**		ug/L			2798401	2998628	0	Standard
	Tl	**205**	**25.671**	ug/L	0.622	2	80	2465459	1	Standard
	[redacted]	**208**	[redacted]	ug/L	0.677	1	353	4422063	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0010-PS1
Sample Dil Factor: 20
Comments: DEL
Sample Date/Time: Thursday, June 02, 2022 02:54:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1092035	2	Standard
	Be	**9**	**23.561**	ug/L	0.131	0	13	128909	2	Standard
	C	**13**		ug/L			30879	42130	0	Standard
	Cl	**37**		ug/L			8137590	8220878	1	Standard
>	**Sc**	**45**		ug/L			1506324	1453316	0	Standard
	V	**51**	**45.958**	ug/L	0.536	1	7630	1390536	0	Standard
	V-1	**51**	**46.502**	ug/L	0.393	0	137	1396554	0	Standard
	Cr	**52**	**33.273**	ug/L	0.162	0	22519	868824	1	Standard
	Cr	**53**	**35.007**	ug/L	0.490	1	148	100101	1	Standard
	Mn	**55**	**213.905**	ug/L	2.998	1	1780	8429307	1	Standard
>	**Ge**	**72**		ug/L			97794	88441	1	KED
	Ni	**60**	**33.157**	ug/L	0.383	1	15	47834	0	KED
	Ni	**62**	**32.667**	ug/L	0.477	1	2	7713	1	KED
	Cu	**63**	**40.889**	ug/L	0.459	1	99	171552	0	KED
	Cu	**65**	**40.952**	ug/L	0.155	0	53	86666	1	KED
	Zn	**66**	**112.924**	ug/L	2.371	2	300	69079	0	KED
	Zn	**67**	**108.682**	ug/L	2.985	2	50	10940	2	KED
	As	**75**	**32.191**	ug/L	0.604	1	4	9434	0	KED
	Se	**78**	**73.196**	ug/L	2.090	2	11	2396	1	KED
	Y	**89**		ug/L			893628	1045930	0	Standard
	Kr	**83**		ug/L			62	148	9	Standard
>	**In-1**	**115**		ug/L			27117	23809	1	KED
	Cd	**111**	**24.685**	ug/L	0.040	0	3	8083	1	KED
	Cd	**114**	**24.865**	ug/L	0.046	0	3	21041	1	KED
>	**In**	**115**		ug/L			1764814	1670875	0	Standard
	Ag	**107**	**23.407**	ug/L	0.428	1	70	543379	0	Standard
	Sb	**121**	**0.028**	ug/L	0.002	5	359	1026	2	Standard
	Sb	**123**	**0.030**	ug/L	0.003	9	300	816	6	Standard
	Ba	**135**	**46.802**	ug/L	0.538	1	33	306686	0	Standard
	Ba	**137**	**47.089**	ug/L	0.484	1	55	517161	0	Standard
>	**Tb**	**159**		ug/L			2798401	2958334	0	Standard
	Tl	**205**	**24.742**	ug/L	0.095	0	80	2344515	0	Standard
	Pb	**208**	**31.890**	ug/L	0.372	1	353	4078673	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:01:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1086379	1	Standard
	Be	**9**	**-0.000**	ug/L	0.001	2459	13	12	56	Standard
	C	**13**		ug/L			30879	31210	0	Standard
	Cl	**37**		ug/L			8137590	8066381	1	Standard
>	**Sc**	**45**		ug/L			1506324	1347491	0	Standard
	V	**51**	**0.001**	ug/L	0.005	716	7630	6845	2	Standard
	V-1	**51**	**-0.001**	ug/L	0.000	11	137	92	4	Standard
	Cr	**52**	**0.007**	ug/L	0.021	297	22519	20310	2	Standard
	Cr	**53**	**0.001**	ug/L	0.005	496	148	135	9	Standard
	Mn	**55**	**0.025**	ug/L	0.002	8	1780	2488	2	Standard
>	**Ge**	**72**		ug/L			97794	90476	0	KED
	Ni	**60**	**-0.004**	ug/L	0.003	68	15	8	44	KED
	Ni	**62**	**0.035**	ug/L	0.012	34	2	10	26	KED
	Cu	**63**	**0.007**	ug/L	0.005	81	99	120	19	KED
	Cu	**65**	**0.007**	ug/L	0.003	48	53	64	11	KED
	Zn	**66**	**-0.313**	ug/L	0.027	8	300	83	20	KED
	Zn	**67**	**-0.298**	ug/L	0.075	25	50	15	48	KED
	As	**75**	**0.002**	ug/L	0.002	86	4	4	12	KED
	Se	**78**	**0.076**	ug/L	0.084	111	11	12	21	KED
	Y	**89**		ug/L			893628	823141	0	Standard
	Kr	**83**		ug/L			62	62	6	Standard
>	**In-1**	**115**		ug/L			27117	24252	0	KED
	Cd	**111**	**0.009**	ug/L	0.005	56	3	5	28	KED
	Cd	**114**	**0.006**	ug/L	0.001	22	3	8	12	KED
>	**In**	**115**		ug/L			1764814	1656701	0	Standard
	Ag	**107**	**0.001**	ug/L	0.000	20	70	99	6	Standard
	Sb	**121**	**-0.009**	ug/L	0.001	6	359	116	12	Standard
	Sb	**123**	**-0.011**	ug/L	0.001	11	300	95	23	Standard
	Ba	**135**	**0.003**	ug/L	0.002	57	33	49	21	Standard
	Ba	**137**	**0.001**	ug/L	0.000	13	55	66	3	Standard
>	**Tb**	**159**		ug/L			2798401	2808498	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	3	80	245	1	Standard
	Pb	**208**	**0.006**	ug/L	0.000	4	353	1123	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:06:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1091137	3	Standard
⌊	**Be**	**9**	**49.951**	ug/L	1.876	3	13	272834	0	Standard
	C	**13**		ug/L			30879	30411	1	Standard
	Cl	**37**		ug/L			8137590	8450067	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1340349	1	Standard
|	**V**	**51**	**48.849**	ug/L	0.655	1	7630	1362653	0	Standard
|	**V-1**	**51**	**49.566**	ug/L	0.695	1	137	1372787	0	Standard
|	**Cr**	**52**	**49.311**	ug/L	0.730	1	22519	1177745	0	Standard
|	**Cr**	**53**	**51.724**	ug/L	0.877	1	148	136326	0	Standard
⌊	**Mn**	**55**	**50.574**	ug/L	0.847	1	1780	1839077	0	Standard
⌈>	**Ge**	**72**		ug/L			97794	87893	1	KED
|	**Ni**	**60**	**51.970**	ug/L	1.339	2	15	74493	1	KED
|	**Ni**	**62**	**51.145**	ug/L	1.177	2	2	11999	1	KED
|	**Cu**	**63**	**52.629**	ug/L	1.125	2	99	219400	0	KED
|	**Cu**	**65**	**52.373**	ug/L	0.831	1	53	110124	0	KED
|	**Zn**	**66**	**52.250**	ug/L	1.277	2	300	31910	0	KED
|	**Zn**	**67**	**51.431**	ug/L	1.284	2	50	5168	1	KED
|	**As**	**75**	**51.114**	ug/L	0.877	1	4	14886	1	KED
⌊	**Se**	**78**	**50.747**	ug/L	1.074	2	11	1654	1	KED
	Y	**89**		ug/L			893628	832278	1	Standard
	Kr	**83**		ug/L			62	57	18	Standard
⌈>	**In-1**	**115**		ug/L			27117	23529	0	KED
|	**Cd**	**111**	**52.088**	ug/L	1.103	2	3	16854	2	KED
⌊	**Cd**	**114**	**51.519**	ug/L	0.652	1	3	43085	1	KED
⌈>	**In**	**115**		ug/L			1764814	1604446	0	Standard
|	**Ag**	**107**	**48.571**	ug/L	0.994	2	70	1082890	2	Standard
|	**Sb**	**121**	**47.797**	ug/L	0.663	1	359	1133591	0	Standard
|	**Sb**	**123**	**50.032**	ug/L	0.451	0	300	859321	0	Standard
|	**Ba**	**135**	**48.254**	ug/L	0.338	0	33	303648	1	Standard
⌊	**Ba**	**137**	**48.675**	ug/L	0.290	0	55	513355	1	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2843063	1	Standard
|	**Tl**	**205**	**51.934**	ug/L	0.549	1	80	4729144	0	Standard
⌊	**Pb**	**208**	**48.406**	ug/L	0.429	0	353	5949628	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:13:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1123194	4	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	70	13	6	68	Standard
	C	**13**		ug/L			30879	30804	1	Standard
	Cl	**37**		ug/L			8137590	8168404	1	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1349205	0	Standard
|	**V**	**51**	**0.022**	ug/L	0.004	16	7630	7436	0	Standard
|	**V-1**	**51**	**-0.001**	ug/L	0.000	7	137	100	2	Standard
|	**Cr**	**52**	**0.067**	ug/L	0.014	20	22519	21756	0	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.002	23	148	112	3	Standard
⌊	**Mn**	**55**	**0.016**	ug/L	0.002	9	1780	2179	2	Standard
⌈>	**Ge**	**72**		ug/L			97794	89622	0	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.004	471	15	13	42	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.000	3	2	1		KED
|	**Cu**	**63**	**0.009**	ug/L	0.003	32	99	130	10	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	47	53	59	8	KED
|	**Zn**	**66**	**-0.129**	ug/L	0.032	24	300	196	9	KED
|	**Zn**	**67**	**-0.159**	ug/L	0.019	12	50	29	7	KED
|	**As**	**75**	**-0.001**	ug/L	0.009	862	4	3	75	KED
⌊	**Se**	**78**	**0.105**	ug/L	0.028	26	11	13	6	KED
	Y	**89**		ug/L			893628	815351	1	Standard
	Kr	**83**		ug/L			62	62	20	Standard
⌈>	**In-1**	**115**		ug/L			27117	24208	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	187	3	2	49	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	266	3	2	94	KED
⌈>	**In**	**115**		ug/L			1764814	1638821	2	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	47	70	119	19	Standard
|	**Sb**	**121**	**0.026**	ug/L	0.002	6	359	953	4	Standard
|	**Sb**	**123**	**0.027**	ug/L	0.001	3	300	753	3	Standard
|	**Ba**	**135**	**0.039**	ug/L	0.005	13	33	280	12	Standard
⌊	**Ba**	**137**	**0.037**	ug/L	0.002	4	55	447	5	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2775243	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	12	80	211	7	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	21	353	606	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:18:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L				1084314	2	Standard
	Be	**9**		ug/L				13	62	Standard
	C	**13**		ug/L				30481	1	Standard
	Cl	**37**		ug/L				8086439	1	Standard
>	**Sc**	**45**		ug/L				1349683	0	Standard
	V	**51**		ug/L				7438	0	Standard
	V-1	**51**		ug/L				90	13	Standard
	Cr	**52**		ug/L				21824	0	Standard
	Cr	**53**		ug/L				116	3	Standard
	Mn	**55**		ug/L				1991	1	Standard
>	**Ge**	**72**		ug/L				89878	1	KED
	Ni	**60**		ug/L				14	54	KED
	Ni	**62**		ug/L				6	62	KED
	Cu	**63**		ug/L				115	3	KED
	Cu	**65**		ug/L				62	26	KED
	Zn	**66**		ug/L				209	5	KED
	Zn	**67**		ug/L				35	13	KED
	As	**75**		ug/L				3	0	KED
	Se	**78**		ug/L				12	17	KED
	Y	**89**		ug/L				830650	2	Standard
	Kr	**83**		ug/L				62	12	Standard
>	**In-1**	**115**		ug/L				23226	1	KED
	Cd	**111**		ug/L				3	41	KED
	Cd	**114**		ug/L				2	45	KED
>	**In**	**115**		ug/L				1635078	0	Standard
	Ag	**107**		ug/L				87	18	Standard
	Sb	**121**		ug/L				387	4	Standard
	Sb	**123**		ug/L				284	7	Standard
	Ba	**135**		ug/L				264	4	Standard
	Ba	**137**		ug/L				443	3	Standard
>	**Tb**	**159**		ug/L				2771891	0	Standard
	Tl	**205**		ug/L				116	16	Standard
	Pb	**208**		ug/L				532	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:23:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1103282	3	Standard
	Be	**9**	**49.746**	ug/L	1.272	2	13	274847	1	Standard
	C	**13**		ug/L			30481	30546	0	Standard
	Cl	**37**		ug/L			8086439	8397681	0	Standard
>	**Sc**	**45**		ug/L			1349683	1332840	1	Standard
	V	**51**	**48.903**	ug/L	0.864	1	7438	1357055	0	Standard
	V-1	**51**	**49.658**	ug/L	0.621	1	90	1367647	0	Standard
	Cr	**52**	**49.595**	ug/L	0.725	1	21824	1179389	0	Standard
	Cr	**53**	**52.140**	ug/L	0.432	0	116	136658	1	Standard
	Mn	**55**	**51.143**	ug/L	0.437	0	1991	1849865	0	Standard
>	**Ge**	**72**		ug/L			89878	88874	1	KED
	Ni	**60**	**51.071**	ug/L	1.028	2	14	74031	1	KED
	Ni	**62**	**50.241**	ug/L	0.106	0	6	11926	1	KED
	Cu	**63**	**51.965**	ug/L	0.328	0	115	219110	0	KED
	Cu	**65**	**51.642**	ug/L	0.509	0	62	109824	0	KED
	Zn	**66**	**51.622**	ug/L	0.856	1	209	31820	1	KED
	Zn	**67**	**51.809**	ug/L	0.655	1	35	5254	1	KED
	As	**75**	**50.325**	ug/L	0.657	1	3	14820	0	KED
	Se	**78**	**49.550**	ug/L	1.078	2	12	1636	1	KED
	Y	**89**		ug/L			830650	816021	1	Standard
	Kr	**83**		ug/L			62	69	11	Standard
>	**In-1**	**115**		ug/L			23226	23189	0	KED
	Cd	**111**	**52.478**	ug/L	0.262	0	3	16735	0	KED
	Cd	**114**	**52.333**	ug/L	0.416	0	2	43129	0	KED
>	**In**	**115**		ug/L			1635078	1623645	1	Standard
	Ag	**107**	**47.961**	ug/L	0.245	0	87	1081929	1	Standard
	Sb	**121**	**47.242**	ug/L	1.028	2	387	1133707	0	Standard
	Sb	**123**	**49.613**	ug/L	1.232	2	284	862098	0	Standard
	Ba	**135**	**47.625**	ug/L	0.957	2	264	303433	0	Standard
	Ba	**137**	**47.860**	ug/L	0.779	1	443	511100	1	Standard
>	**Tb**	**159**		ug/L			2771891	2820753	0	Standard
	Tl	**205**	**52.064**	ug/L	0.286	0	116	4703902	0	Standard
	Pb	**208**	**48.494**	ug/L	0.319	0	532	5914279	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:31:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1088981	1	Standard
	Be	**9**	**0.001**	ug/L	0.001	159	13	16	29	Standard
	C	**13**		ug/L			30481	30849	1	Standard
	Cl	**37**		ug/L			8086439	8201569	0	Standard
>	**Sc**	**45**		ug/L			1349683	1333775	2	Standard
	V	**51**	**0.001**	ug/L	0.002	253	7438	7370	2	Standard
	V-1	**51**	**-0.000**	ug/L	0.000	130	90	87	3	Standard
	Cr	**52**	**0.004**	ug/L	0.007	151	21824	21667	1	Standard
	Cr	**53**	**0.002**	ug/L	0.003	162	116	119	4	Standard
	Mn	**55**	**-0.006**	ug/L	0.002	32	1991	1762	1	Standard
>	**Ge**	**72**		ug/L			89878	89901	0	KED
	Ni	**60**	**0.002**	ug/L	0.000	4	14	17	0	KED
	Ni	**62**	**0.011**	ug/L	0.008	75	6	9	20	KED
	Cu	**63**	**0.002**	ug/L	0.005	280	115	122	16	KED
	Cu	**65**	**0.000**	ug/L	0.006	2173	62	62	21	KED
	Zn	**66**	**0.003**	ug/L	0.023	775	209	211	6	KED
	Zn	**67**	**-0.056**	ug/L	0.044	78	35	29	14	KED
	As	**75**	**0.003**	ug/L	0.003	124	3	4	21	KED
	Se	**78**	**0.094**	ug/L	0.031	32	12	15	6	KED
	Y	**89**		ug/L			830650	818694	3	Standard
	Kr	**83**		ug/L			62	57	21	Standard
>	**In-1**	**115**		ug/L			23226	23876	2	KED
	Cd	**111**	**-0.003**	ug/L	0.006	179	3	2	78	KED
	Cd	**114**	**0.001**	ug/L	0.002	166	2	3	52	KED
>	**In**	**115**		ug/L			1635078	1635433	0	Standard
	Ag	**107**	**0.001**	ug/L	0.000	30	87	121	9	Standard
	Sb	**121**	**0.030**	ug/L	0.001	3	387	1110	2	Standard
	Sb	**123**	**0.034**	ug/L	0.002	4	284	887	3	Standard
	Ba	**135**	**0.005**	ug/L	0.003	64	264	293	7	Standard
	Ba	**137**	**0.003**	ug/L	0.002	72	443	477	5	Standard
>	**Tb**	**159**		ug/L			2771891	2766759	0	Standard
	Tl	**205**	**0.000**	ug/L	0.000	52	116	151	12	Standard
	Pb	**208**	**0.001**	ug/L	0.001	82	532	610	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:36:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1106301	2	Standard
	Be	**9**	**0.001**	ug/L	0.002	335	13	17	69	Standard
	C	**13**		ug/L			30481	48083	1	Standard
	Cl	**37**		ug/L			8086439	8307384	0	Standard
>	**Sc**	**45**		ug/L			1349683	1352166	0	Standard
	V	**51**	**0.210**	ug/L	0.001	0	7438	13327	0	Standard
	V-1	**51**	**0.228**	ug/L	0.003	1	90	6447	0	Standard
		52		ug/L	0.010	1	21824	34599	0	Standard
	Cr	**53**	**0.600**	ug/L	0.021	3	116	1709	2	Standard
	Mn	**55**	**18.597**	ug/L	0.218	1	1991	683723	0	Standard
>	**Ge**	**72**		ug/L			89878	90348	0	KED
	Ni	**60**	**0.613**	ug/L	0.020	3	14	917	2	KED
	Ni	**62**	**0.655**	ug/L	0.041	6	6	165	5	KED
		63		ug/L	0.137	1	115	51351	1	KED
	Cu	**65**	**11.911**	ug/L	0.188	1	62	25797	1	KED
	Zn	**66**	**112.490**	ug/L	0.766	0	209	70246	0	KED
				ug/L	2.539	2	35	10855	1	KED
		75		ug/L	0.006	6	3	32	6	KED
	Se	**78**	**0.031**	ug/L	0.123	399	12	13	30	KED
	Y	**89**		ug/L			830650	814091	2	Standard
	Kr	**83**		ug/L			62	60	4	Standard
>	**In-1**	**115**		ug/L			23226	23750	1	KED
	Cd	**111**	**0.042**	ug/L	0.013	31	3	17	26	KED
	Cd	**114**	**0.044**	ug/L	0.008	18	2	39	19	KED
>	**In**	**115**		ug/L			1635078	1645654	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	92	87	113	20	Standard
	Sb	**121**	**0.458**	ug/L	0.010	2	387	11532	1	Standard
	Sb	**123**	**0.482**	ug/L	0.005	1	284	8772	1	Standard
	Ba	**135**	**4.673**	ug/L	0.092	1	264	30423	1	Standard
	Ba	**137**	**4.635**	ug/L	0.110	2	443	50574	1	Standard
>	**Tb**	**159**		ug/L			2771891	2799997	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	8	116	269	4	Standard
		208		ug/L	0.003	2	532	18588	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:41:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1086524	3	Standard
	Be	**9**	**0.003**	ug/L	0.002	61	13	31	36	Standard
	C	**13**		ug/L			30481	85812	0	Standard
	Cl	**37**		ug/L			8086439	8603212	0	Standard
>	**Sc**	**45**		ug/L			1349683	1364907	1	Standard
	V	**51**	**0.393**	ug/L	0.011	2	7438	18628	0	Standard
	V-1	**51**	**0.789**	ug/L	0.007	0	90	22332	0	Standard
		52		ug/L	0.019	3	21824	36812	0	Standard
	Cr	**53**	**1.949**	ug/L	0.018	0	116	5344	1	Standard
	Mn	**55**	**22.900**	ug/L	0.388	1	1991	849247	0	Standard
>	**Ge**	**72**		ug/L			89878	90217	0	KED
	Ni	**60**	**0.560**	ug/L	0.021	3	14	838	4	KED
	Ni	**62**	**0.548**	ug/L	0.065	11	6	139	11	KED
		63		ug/L	0.028	0	115	29675	0	KED
	Cu	**65**	**6.791**	ug/L	0.040	0	62	14716	0	KED
		66		ug/L	1.025	1	209	40350	1	KED
	Zn	**67**	**62.655**	ug/L	0.958	1	35	6443	0	KED
		75		ug/L	0.018	11	3	51	10	KED
	Se	**78**	**0.021**	ug/L	0.042	200	12	13	10	KED
	Y	**89**		ug/L			830650	829934	1	Standard
	Kr	**83**		ug/L			62	46	32	Standard
>	**In-1**	**115**		ug/L			23226	23527	1	KED
	Cd	**111**	**0.086**	ug/L	0.009	9	3	31	8	KED
	Cd	**114**	**0.102**	ug/L	0.022	21	2	87	19	KED
>	**In**	**115**		ug/L			1635078	1642499	0	Standard
	Ag	**107**	**0.001**	ug/L	0.000	16	87	118	4	Standard
	Sb	**121**	**0.677**	ug/L	0.004	0	387	16832	1	Standard
	Sb	**123**	**0.713**	ug/L	0.006	0	284	12825	1	Standard
	Ba	**135**	**9.687**	ug/L	0.084	0	264	62657	0	Standard
	Ba	**137**	**9.676**	ug/L	0.149	1	443	104900	1	Standard
>	**Tb**	**159**		ug/L			2771891	2797427	0	Standard
	Tl	**205**	**0.003**	ug/L	0.000	16	116	369	11	Standard
		208		ug/L	0.003	2	532	18350	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:46:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1097954	3	Standard
	Be	**9**	**0.004**	ug/L	0.001	18	13	33	14	Standard
	C	**13**		ug/L			30481	53557	1	Standard
	Cl	**37**		ug/L			8086439	8114446	0	Standard
>	**Sc**	**45**		ug/L			1349683	1392401	0	Standard
	V	**51**	**0.370**	ug/L	0.015	4	7438	18343	1	Standard
	V-1	**51**	**0.443**	ug/L	0.008	1	90	12829	0	Standard
		52		ug/L	0.031	6	21824	34756	1	Standard
	Cr	**53**	**0.747**	ug/L	0.014	1	116	2164	1	Standard
	Mn	**55**	**216.900**	ug/L	3.944	1	1991	8188953	0	Standard
>	**Ge**	**72**		ug/L			89878	89684	0	KED
	Ni	**60**	**0.479**	ug/L	0.028	5	14	715	5	KED
	Ni	**62**	**0.424**	ug/L	0.034	8	6	108	7	KED
		63		ug/L	0.043	1	115	16758	1	KED
	Cu	**65**	**3.886**	ug/L	0.028	0	62	8396	0	KED
		66		ug/L	0.262	0	209	22238	0	KED
	Zn	**67**	**34.202**	ug/L	0.450	1	35	3512	1	KED
		75		ug/L	0.019	4	3	123	4	KED
	Se	**78**	**-0.072**	ug/L	0.074	102	12	10	24	KED
	Y	**89**		ug/L			830650	835247	1	Standard
	Kr	**83**		ug/L			62	94	17	Standard
>	**In-1**	**115**		ug/L			23226	23829	1	KED
	Cd	**111**	**0.020**	ug/L	0.006	31	3	10	19	KED
	Cd	**114**	**0.033**	ug/L	0.006	17	2	30	15	KED
>	**In**	**115**		ug/L			1635078	1652486	0	Standard
	Ag	**107**	**0.002**	ug/L	0.000	16	87	141	6	Standard
	Sb	**121**	**1.155**	ug/L	0.024	2	387	28591	1	Standard
	Sb	**123**	**1.207**	ug/L	0.010	0	284	21627	0	Standard
	Ba	**135**	**13.218**	ug/L	0.079	0	264	85921	0	Standard
	Ba	**137**	**13.049**	ug/L	0.057	0	443	142178	1	Standard
>	**Tb**	**159**		ug/L			2771891	2842736	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	31	116	238	16	Standard
		208		ug/L	0.002	1	532	21243	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:51:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1101024	1	Standard
	Be	**9**	**0.002**	ug/L	0.001	37	13	23	16	Standard
	C	**13**		ug/L			30481	134093	0	Standard
	Cl	**37**		ug/L			8086439	9166993	0	Standard
>	**Sc**	**45**		ug/L			1349683	1400137	0	Standard
	V	**51**	**0.381**	ug/L	0.016	4	7438	18774	3	Standard
	V-1	**51**	**1.247**	ug/L	0.013	1	90	36183	1	Standard
		52		ug/L	0.012	2	21824	36534	0	Standard
	Cr	**53**	**3.481**	ug/L	0.051	1	116	9695	0	Standard
	Mn	**55**	**194.691**	ug/L	0.445	0	1991	7392318	0	Standard
>	**Ge**	**72**		ug/L			89878	91676	0	KED
	Ni	**60**	**0.450**	ug/L	0.024	5	14	687	4	KED
	Ni	**62**	**0.485**	ug/L	0.037	7	6	125	6	KED
		63		ug/L	0.039	1	115	15190	0	KED
	Cu	**65**	**3.455**	ug/L	0.055	1	62	7640	2	KED
		66		ug/L	0.295	1	209	15028	1	KED
	Zn	**67**	**22.329**	ug/L	0.633	2	35	2357	3	KED
		75		ug/L	0.001	0	3	159	0	KED
	Se	**78**	**0.031**	ug/L	0.131	423	12	13	31	KED
	Y	**89**		ug/L			830650	842131	2	Standard
	Kr	**83**		ug/L			62	107	11	Standard
>	**In-1**	**115**		ug/L			23226	23806	1	KED
	Cd	**111**	**0.005**	ug/L	0.009	202	3	5	60	KED
	Cd	**114**	**0.026**	ug/L	0.006	24	2	24	23	KED
>	**In**	**115**		ug/L			1635078	1679203	1	Standard
	Ag	**107**	**0.001**	ug/L	0.001	87	87	116	19	Standard
	Sb	**121**	**0.640**	ug/L	0.014	2	387	16281	1	Standard
	Sb	**123**	**0.672**	ug/L	0.011	1	284	12374	0	Standard
	Ba	**135**	**8.765**	ug/L	0.155	1	264	57988	1	Standard
	Ba	**137**	**8.711**	ug/L	0.085	0	443	96586	0	Standard
>	**Tb**	**159**		ug/L			2771891	2847960	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	24	116	265	12	Standard
		208		ug/L	0.000	0	532	12704	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:56:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1116714	1	Standard
	Be	**9**	**0.011**	ug/L	0.001	11	13	73	9	Standard
	C	**13**		ug/L			30481	104264	0	Standard
	Cl	**37**		ug/L			8086439	8391127	1	Standard
>	**Sc**	**45**		ug/L			1349683	1386559	0	Standard
	V	**51**	**1.050**	ug/L	0.030	2	7438	37802	2	Standard
	V-1	**51**	**1.457**	ug/L	0.018	1	90	41841	1	Standard
		52		ug/L	0.014	1	21824	52288	1	Standard
	Cr	**53**	**2.599**	ug/L	0.043	1	116	7200	2	Standard
	Mn	**55**	**5.596**	ug/L	0.038	0	1991	212395	1	Standard
>	**Ge**	**72**		ug/L			89878	92084	0	KED
	Ni	**60**	**0.505**	ug/L	0.007	1	14	773	1	KED
	Ni	**62**	**0.487**	ug/L	0.082	16	6	126	16	KED
		63		ug/L	0.097	1	115	25778	1	KED
	Cu	**65**	**5.902**	ug/L	0.063	1	62	13062	0	KED
		66		ug/L	0.516	0	209	34168	0	KED
	Zn	**67**	**50.244**	ug/L	0.909	1	35	5281	1	KED
		75		ug/L	0.019	10	3	58	9	KED
	Se	**78**	**0.041**	ug/L	0.049	118	12	14	11	KED
	Y	**89**		ug/L			830650	852203	0	Standard
	Kr	**83**		ug/L			62	52	18	Standard
>	**In-1**	**115**		ug/L			23226	23692	3	KED
	Cd	**111**	**0.036**	ug/L	0.005	14	3	15	12	KED
	Cd	**114**	**0.052**	ug/L	0.013	25	2	45	24	KED
>	**In**	**115**		ug/L			1635078	1662321	1	Standard
	Ag	**107**	**0.004**	ug/L	0.001	27	87	180	13	Standard
	Sb	**121**	**0.314**	ug/L	0.014	4	387	8114	2	Standard
	Sb	**123**	**0.326**	ug/L	0.007	2	284	6079	1	Standard
	Ba	**135**	**6.150**	ug/L	0.030	0	264	40357	0	Standard
	Ba	**137**	**6.156**	ug/L	0.067	1	443	67705	0	Standard
>	**Tb**	**159**		ug/L			2771891	2863416	1	Standard
	Tl	**205**	**0.002**	ug/L	0.001	21	116	341	12	Standard
		208		ug/L	0.003	1	532	23763	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:01:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1104972	1	Standard
	Be	**9**	**0.002**	ug/L	0.002	84	13	24	35	Standard
	C	**13**		ug/L			30481	57655	0	Standard
	Cl	**37**		ug/L			8086439	8022445	0	Standard
>	**Sc**	**45**		ug/L			1349683	1376341	1	Standard
	V	**51**	**0.486**	ug/L	0.012	2	7438	21429	0	Standard
	V-1	**51**	**0.512**	ug/L	0.009	1	90	14646	0	Standard
		52		ug/L	0.009	1	21824	35509	1	Standard
	Cr	**53**	**0.638**	ug/L	0.022	3	116	1843	3	Standard
	Mn	**55**	**16.421**	ug/L	0.065	0	1991	614723	1	Standard
>	**Ge**	**72**		ug/L			89878	90715	0	KED
	Ni	**60**	**1.023**	ug/L	0.065	6	14	1528	6	KED
	Ni	**62**	**1.232**	ug/L	0.060	4	6	305	4	KED
		63		ug/L	0.928	0	115	529544	0	KED
	Cu	**65**	**122.702**	ug/L	0.850	0	62	266273	0	KED
	Zn	**66**	**167.127**	ug/L	1.424	0	209	104688	0	KED
				ug/L	2.633	1	35	15783	1	KED
		75		ug/L	0.009	9	3	33	7	KED
	Se	**78**	**0.064**	ug/L	0.100	155	12	14	22	KED
	Y	**89**		ug/L			830650	843176	0	Standard
	Kr	**83**		ug/L			62	45	23	Standard
>	**In-1**	**115**		ug/L			23226	24121	1	KED
	Cd	**111**	**0.034**	ug/L	0.013	37	3	14	28	KED
	Cd	**114**	**0.026**	ug/L	0.004	16	2	24	14	KED
>	**In**	**115**		ug/L			1635078	1664687	0	Standard
	Ag	**107**	**0.005**	ug/L	0.001	19	87	210	11	Standard
	Sb	**121**	**0.146**	ug/L	0.003	2	387	3981	2	Standard
	Sb	**123**	**0.156**	ug/L	0.003	1	284	3069	2	Standard
	Ba	**135**	**3.647**	ug/L	0.077	2	264	24078	1	Standard
	Ba	**137**	**3.641**	ug/L	0.058	1	443	40289	1	Standard
>	**Tb**	**159**		ug/L			2771891	2833907	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	33	116	195	12	Standard
		208		ug/L	0.018	1	532	163858	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:06:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1095060	2	Standard
	Be	**9**	**0.005**	ug/L	0.001	26	13	41	19	Standard
	C	**13**		ug/L			30481	63577	0	Standard
	Cl	**37**		ug/L			8086439	7715978	1	Standard
>	**Sc**	**45**		ug/L			1349683	1392732	0	Standard
	V	**51**	**1.021**	ug/L	0.019	1	7438	37115	0	Standard
	V-1	**51**	**1.062**	ug/L	0.015	1	90	30664	0	Standard
		52		ug/L	0.034	3	21824	44397	1	Standard
	Cr	**53**	**1.036**	ug/L	0.018	1	116	2953	1	Standard
	Mn	**55**	**38.024**	ug/L	0.545	1	1991	1437646	0	Standard
>	**Ge**	**72**		ug/L			89878	90411	1	KED
	Ni	**60**	**1.258**	ug/L	0.004	0	14	1869	1	KED
	Ni	**62**	**1.308**	ug/L	0.108	8	6	322	6	KED
		63		ug/L	0.055	0	115	70983	1	KED
	Cu	**65**	**16.392**	ug/L	0.055	0	62	35506	1	KED
	Zn	**66**	**271.173**	ug/L	2.680	0	209	169150	0	KED
	Zn	**67**	**254.052**	ug/L	5.368	2	35	26070	1	KED
		75		ug/L	0.036	5	3	205	3	KED
	Se	**78**	**0.063**	ug/L	0.193	304	12	14	44	KED
	Y	**89**		ug/L			830650	846264	0	Standard
	Kr	**83**		ug/L			62	66	19	Standard
>	**In-1**	**115**		ug/L			23226	24219	0	KED
	Cd	**111**	**3.179**	ug/L	0.031	0	3	1062	0	KED
	Cd	**114**	**3.086**	ug/L	0.074	2	2	2658	2	KED
>	**In**	**115**		ug/L			1635078	1632712	1	Standard
	Ag	**107**	**0.012**	ug/L	0.001	6	87	356	5	Standard
	Sb	**121**	**0.271**	ug/L	0.005	1	387	6917	0	Standard
	Sb	**123**	**0.288**	ug/L	0.012	4	284	5317	3	Standard
	Ba	**135**	**20.762**	ug/L	0.121	0	264	133205	1	Standard
	Ba	**137**	**20.669**	ug/L	0.151	0	443	222229	0	Standard
>	**Tb**	**159**		ug/L			2771891	2821551	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	4	116	290	2	Standard
		208		ug/L	0.037	1	532	309071	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:11:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1138838	2	Standard
	Be	**9**	**0.006**	ug/L	0.002	41	13	46	27	Standard
	C	**13**		ug/L			30481	52150	1	Standard
	Cl	**37**		ug/L			8086439	7865831	0	Standard
>	**Sc**	**45**		ug/L			1349683	1403792	0	Standard
	V	**51**	**1.500**	ug/L	0.003	0	7438	51348	0	Standard
	V-1	**51**	**1.527**	ug/L	0.007	0	90	44402	0	Standard
		52		ug/L	0.013	2	21824	35902	1	Standard
	Cr	**53**	**0.622**	ug/L	0.011	1	116	1835	1	Standard
	Mn	**55**	**9.474**	ug/L	0.042	0	1991	362632	0	Standard
>	**Ge**	**72**		ug/L			89878	90320	0	KED
	Ni	**60**	**1.111**	ug/L	0.053	4	14	1651	5	KED
	Ni	**62**	**1.153**	ug/L	0.026	2	6	285	2	KED
		63		ug/L	0.088	2	115	15309	1	KED
	Cu	**65**	**3.536**	ug/L	0.020	0	62	7701	0	KED
		66		ug/L	1.108	2	209	28577	1	KED
	Zn	**67**	**43.770**	ug/L	0.924	2	35	4516	1	KED
		75		ug/L	0.011	6	3	56	6	KED
	Se	**78**	**0.050**	ug/L	0.027	54	12	14	6	KED
	Y	**89**		ug/L			830650	853929	1	Standard
	Kr	**83**		ug/L			62	53	14	Standard
>	**In-1**	**115**		ug/L			23226	23862	1	KED
	Cd	**111**	**0.030**	ug/L	0.005	17	3	13	12	KED
	Cd	**114**	**0.038**	ug/L	0.021	54	2	34	52	KED
>	**In**	**115**		ug/L			1635078	1683147	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	67	87	114	14	Standard
	Sb	**121**	**0.121**	ug/L	0.006	4	387	3420	3	Standard
	Sb	**123**	**0.119**	ug/L	0.003	2	284	2434	1	Standard
	Ba	**135**	**10.107**	ug/L	0.155	1	264	66976	0	Standard
	Ba	**137**	**10.064**	ug/L	0.223	2	443	111775	1	Standard
>	**Tb**	**159**		ug/L			2771891	2855083	1	Standard
	Tl	**205**	**0.001**	ug/L	0.000	11	116	233	6	Standard
		208		ug/L	0.010	1	532	96237	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:17:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1096473	2	Standard
	Be	**9**	**0.000**	ug/L	0.001	637	13	14	49	Standard
	C	**13**		ug/L			30481	49246	2	Standard
	Cl	**37**		ug/L			8086439	7918849	0	Standard
>	**Sc**	**45**		ug/L			1349683	1370133	1	Standard
	V	**51**	**0.389**	ug/L	0.010	2	7438	18585	0	Standard
	V-1	**51**	**0.398**	ug/L	0.003	0	90	11349	1	Standard
		52		ug/L	0.021	3	21824	36508	1	Standard
	Cr	**53**	**0.629**	ug/L	0.017	2	116	1811	4	Standard
	Mn	**55**	**130.306**	ug/L	1.365	1	1991	4842080	1	Standard
>	**Ge**	**72**		ug/L			89878	88699	1	KED
	Ni	**60**	**2.091**	ug/L	0.057	2	14	3039	3	KED
	Ni	**62**	**2.118**	ug/L	0.233	11	6	507	9	KED
		63		ug/L	0.026	1	115	10748	2	KED
	Cu	**65**	**2.494**	ug/L	0.065	2	62	5350	1	KED
		66		ug/L	0.308	0	209	24165	0	KED
	Zn	**67**	**37.652**	ug/L	1.103	2	35	3820	2	KED
		75		ug/L	0.016	4	3	109	4	KED
	Se	**78**	**0.043**	ug/L	0.041	96	12	13	10	KED
	Y	**89**		ug/L			830650	828499	2	Standard
	Kr	**83**		ug/L			62	50	17	Standard
>	**In-1**	**115**		ug/L			23226	23614	1	KED
	Cd	**111**	**0.016**	ug/L	0.009	53	3	8	32	KED
	Cd	**114**	**0.011**	ug/L	0.010	92	2	11	72	KED
>	**In**	**115**		ug/L			1635078	1654488	2	Standard
	Ag	**107**	**0.003**	ug/L	0.001	25	87	158	9	Standard
	Sb	**121**	**0.051**	ug/L	0.001	2	387	1648	1	Standard
	Sb	**123**	**0.055**	ug/L	0.002	3	284	1259	3	Standard
	Ba	**135**	**5.722**	ug/L	0.150	2	264	37382	1	Standard
	Ba	**137**	**5.726**	ug/L	0.205	3	443	62677	1	Standard
>	**Tb**	**159**		ug/L			2771891	2842500	0	Standard
	Tl	**205**	**0.000**	ug/L	0.000	31	116	139	4	Standard
		208		ug/L	0.004	1	532	42012	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:23:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1102477	2	Standard
	Be	**9**	**-0.000**	ug/L	0.001	408	13	12	50	Standard
	C	**13**		ug/L			30481	31005	3	Standard
	Cl	**37**		ug/L			8086439	7797018	0	Standard
>	**Sc**	**45**		ug/L			1349683	1355876	1	Standard
	V	**51**	**0.018**	ug/L	0.009	50	7438	7971	2	Standard
	V-1	**51**	**0.005**	ug/L	0.001	11	90	219	6	Standard
	Cr	**52**	**0.057**	ug/L	0.027	47	21824	23264	1	Standard
	Cr	**53**	**0.012**	ug/L	0.004	29	116	149	7	Standard
	Mn	**55**	**-0.024**	ug/L	0.001	2	1991	1133	1	Standard
>	**Ge**	**72**		ug/L			89878	89438	0	KED
	Ni	**60**	**0.000**	ug/L	0.005	1083	14	15	50	KED
	Ni	**62**	**-0.013**	ug/L	0.008	60	6	3	50	KED
	Cu	**63**	**-0.005**	ug/L	0.002	51	115	95	10	KED
	Cu	**65**	**-0.001**	ug/L	0.000	47	62	59	1	KED
	Zn	**66**	**-0.218**	ug/L	0.019	8	209	74	15	KED
	Zn	**67**	**-0.205**	ug/L	0.039	19	35	14	27	KED
	As	**75**	**-0.005**	ug/L	0.003	58	3	2	34	KED
	Se	**78**	**-0.003**	ug/L	0.045	1316	12	12	11	KED
	Y	**89**		ug/L			830650	816002	0	Standard
	Kr	**83**		ug/L			62	59	15	Standard
>	**In-1**	**115**		ug/L			23226	23353	1	KED
	Cd	**111**	**-0.005**	ug/L	0.005	104	3	1	86	KED
	Cd	**114**	**0.001**	ug/L	0.000	10	2	3	2	KED
>	**In**	**115**		ug/L			1635078	1663480	1	Standard
	Ag	**107**	**-0.001**	ug/L	0.000	59	87	74	13	Standard
	Sb	**121**	**-0.010**	ug/L	0.001	11	387	150	19	Standard
	Sb	**123**	**-0.011**	ug/L	0.000	4	284	102	9	Standard
	Ba	**135**	**-0.033**	ug/L	0.001	3	264	53	13	Standard
	Ba	**137**	**-0.034**	ug/L	0.000	1	443	74	5	Standard
>	**Tb**	**159**		ug/L			2771891	2778712	0	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	18	116	65	14	Standard
	Pb	**208**	**0.004**	ug/L	0.000	5	532	1022	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:28:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1084314	1089559	3	Standard
⌊	**Be**	**9**	**50.161**	ug/L	1.511	3	13	273647	0	Standard
	C	**13**		ug/L			30481	30534	1	Standard
	Cl	**37**		ug/L			8086439	8494414	0	Standard
⌈>	**Sc**	**45**		ug/L			1349683	1325016	2	Standard
|	**V**	**51**	**49.018**	ug/L	0.802	1	7438	1352103	0	Standard
|	**V-1**	**51**	**49.811**	ug/L	0.851	1	90	1363574	0	Standard
|	**Cr**	**52**	**49.659**	ug/L	0.828	1	21824	1173826	0	Standard
|	**Cr**	**53**	**52.331**	ug/L	1.058	2	116	136310	0	Standard
⌊	**Mn**	**55**	**50.927**	ug/L	0.455	0	1991	1831184	1	Standard
⌈>	**Ge**	**72**		ug/L			89878	87221	1	KED
|	**Ni**	**60**	**51.300**	ug/L	1.186	2	14	72977	1	KED
|	**Ni**	**62**	**51.823**	ug/L	1.170	2	6	12070	1	KED
|	**Cu**	**63**	**52.519**	ug/L	0.591	1	115	217322	0	KED
|	**Cu**	**65**	**52.051**	ug/L	0.604	1	62	108635	1	KED
|	**Zn**	**66**	**52.660**	ug/L	1.028	1	209	31853	1	KED
|	**Zn**	**67**	**51.487**	ug/L	2.144	4	35	5124	3	KED
|	**As**	**75**	**50.854**	ug/L	0.451	0	3	14698	0	KED
⌊	**Se**	**78**	**49.639**	ug/L	0.361	0	12	1608	1	KED
	Y	**89**		ug/L			830650	819180	1	Standard
	Kr	**83**		ug/L			62	71	8	Standard
⌈>	**In-1**	**115**		ug/L			23226	22957	0	KED
|	**Cd**	**111**	**52.526**	ug/L	0.287	0	3	16583	0	KED
⌊	**Cd**	**114**	**52.407**	ug/L	0.297	0	2	42760	0	KED
⌈>	**In**	**115**		ug/L			1635078	1598524	1	Standard
|	**Ag**	**107**	**48.276**	ug/L	0.508	1	87	1072145	0	Standard
|	**Sb**	**121**	**47.728**	ug/L	0.693	1	387	1127779	0	Standard
|	**Sb**	**123**	**50.297**	ug/L	0.889	1	284	860577	0	Standard
|	**Ba**	**135**	**48.432**	ug/L	0.993	2	264	303809	0	Standard
⌊	**Ba**	**137**	**48.558**	ug/L	0.167	0	443	510605	1	Standard
⌈>	**Tb**	**159**		ug/L			2771891	2798830	1	Standard
|	**Tl**	**205**	**52.547**	ug/L	1.485	2	116	4709138	1	Standard
⌊	**Pb**	**208**	**48.764**	ug/L	0.775	1	532	5899734	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:36:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1130305	3	Standard
	Be	**9**	**-0.000**	ug/L	0.000	142	13	12	18	Standard
	C	**13**		ug/L			30481	30984	0	Standard
	Cl	**37**		ug/L			8086439	8081178	0	Standard
>	**Sc**	**45**		ug/L			1349683	1342259	1	Standard
	V	**51**	**0.006**	ug/L	0.004	76	7438	7559	1	Standard
	V-1	**51**	**0.003**	ug/L	0.001	30	90	164	12	Standard
	Cr	**52**	**0.026**	ug/L	0.017	64	21824	22320	1	Standard
	Cr	**53**	**0.016**	ug/L	0.003	17	116	157	3	Standard
	Mn	**55**	**-0.023**	ug/L	0.001	5	1991	1126	3	Standard
>	**Ge**	**72**		ug/L			89878	89106	0	KED
	Ni	**60**	**0.013**	ug/L	0.008	62	14	33	34	KED
	Ni	**62**	**0.003**	ug/L	0.016	549	6	7	50	KED
	Cu	**63**	**0.002**	ug/L	0.002	82	115	123	6	KED
	Cu	**65**	**0.001**	ug/L	0.004	267	62	64	12	KED
	Zn	**66**	**-0.122**	ug/L	0.010	7	209	132	4	KED
	Zn	**67**	**-0.154**	ug/L	0.094	61	35	19	47	KED
	As	**75**	**-0.001**	ug/L	0.006	377	3	3	49	KED
	Se	**78**	**0.060**	ug/L	0.080	132	12	14	18	KED
	Y	**89**		ug/L			830650	809964	1	Standard
	Kr	**83**		ug/L			62	46	8	Standard
>	**In-1**	**115**		ug/L			23226	24078	2	KED
	Cd	**111**	**0.130**	ug/L	0.233	180	3	47	166	KED
	Cd	**114**	**0.130**	ug/L	0.227	174	2	116	170	KED
>	**In**	**115**		ug/L			1635078	1637657	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	50	87	116	13	Standard
	Sb	**121**	**0.032**	ug/L	0.001	3	387	1156	1	Standard
	Sb	**123**	**0.032**	ug/L	0.002	6	284	846	5	Standard
	Ba	**135**	**-0.027**	ug/L	0.000	0	264	93	2	Standard
	Ba	**137**	**-0.028**	ug/L	0.002	5	443	147	10	Standard
>	**Tb**	**159**		ug/L			2771891	2770438	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	32	116	161	8	Standard
	Pb	**208**	**0.004**	ug/L	0.000	5	532	1048	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:41:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1122752	1	Standard
	Be	**9**	**0.004**	ug/L	0.001	18	13	33	11	Standard
	C	**13**		ug/L			30481	54052	1	Standard
	Cl	**37**		ug/L			8086439	7950824	0	Standard
>	**Sc**	**45**		ug/L			1349683	1383415	1	Standard
	V	**51**	**0.581**	ug/L	0.004	0	7438	24257	1	Standard
	V-1	**51**	**0.600**	ug/L	0.005	0	90	17243	1	Standard
		52		ug/L	0.011	2	21824	33080	0	Standard
	Cr	**53**	**0.506**	ug/L	0.011	2	116	1494	1	Standard
	Mn	**55**	**11.921**	ug/L	0.096	0	1991	449096	1	Standard
>	**Ge**	**72**		ug/L			89878	88481	1	KED
	Ni	**60**	**1.025**	ug/L	0.060	5	14	1493	4	KED
	Ni	**62**	**1.017**	ug/L	0.175	17	6	246	16	KED
		63		ug/L	0.100	2	115	15521	1	KED
	Cu	**65**	**3.714**	ug/L	0.036	0	62	7920	1	KED
		66		ug/L	0.559	2	209	15791	1	KED
	Zn	**67**	**23.351**	ug/L	1.735	7	35	2376	6	KED
		75		ug/L	0.034	16	3	66	14	KED
	Se	**78**	**0.017**	ug/L	0.159	908	12	12	40	KED
	Y	**89**		ug/L			830650	844126	1	Standard
	Kr	**83**		ug/L			62	58	23	Standard
>	**In-1**	**115**		ug/L			23226	23684	1	KED
		111	**0.053**	ug/L	0.026	48	3	20	40	KED
	Cd	**114**	**0.044**	ug/L	0.011	25	2	39	23	KED
>	**In**	**115**		ug/L			1635078	1669392	0	Standard
	Ag	**107**	**0.002**	ug/L	0.000	13	87	130	4	Standard
	Sb	**121**	**0.208**	ug/L	0.004	1	387	5524	1	Standard
	Sb	**123**	**0.218**	ug/L	0.006	2	284	4191	2	Standard
	Ba	**135**	**4.635**	ug/L	0.070	1	264	30610	1	Standard
	Ba	**137**	**4.645**	ug/L	0.072	1	443	51411	0	Standard
>	**Tb**	**159**		ug/L			2771891	2839031	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	9	116	244	4	Standard
		208		ug/L	0.001	3	532	5922	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:46:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1119093	4	Standard
	Be	**9**	**-0.000**	ug/L	0.002	556	13	12	71	Standard
	C	**13**		ug/L			30481	30896	0	Standard
	Cl	**37**		ug/L			8086439	7962624	0	Standard
>	**Sc**	**45**		ug/L			1349683	1360103	1	Standard
	V	**51**	**0.016**	ug/L	0.004	22	7438	7937	0	Standard
	V-1	**51**	**0.003**	ug/L	0.001	18	90	166	7	Standard
	Cr	**52**	**0.049**	ug/L	0.015	30	21824	23153	1	Standard
	Cr	**53**	**0.005**	ug/L	0.003	57	116	131	5	Standard
	Mn	**55**	**-0.026**	ug/L	0.001	3	1991	1060	2	Standard
>	**Ge**	**72**		ug/L			89878	88894	0	KED
	Ni	**60**	**0.001**	ug/L	0.003	307	14	15	27	KED
	Ni	**62**	**-0.002**	ug/L	0.019	788	6	6	69	KED
	Cu	**63**	**-0.003**	ug/L	0.005	167	115	102	19	KED
	Cu	**65**	**-0.002**	ug/L	0.005	256	62	57	16	KED
	Zn	**66**	**-0.180**	ug/L	0.022	12	209	97	13	KED
	Zn	**67**	**-0.210**	ug/L	0.061	28	35	13	43	KED
	As	**75**	**-0.001**	ug/L	0.002	197	3	3	15	KED
	Se	**78**	**-0.016**	ug/L	0.090	559	12	11	25	KED
	Y	**89**		ug/L			830650	835405	0	Standard
	Kr	**83**		ug/L			62	54	8	Standard
>	**In-1**	**115**		ug/L			23226	23590	1	KED
	Cd	**111**	**-0.001**	ug/L	0.002	135	3	3	17	KED
	Cd	**114**	**-0.002**	ug/L	0.001	87	2	1	116	KED
>	**In**	**115**		ug/L			1635078	1651212	0	Standard
	Ag	**107**	**-0.001**	ug/L	0.000	29	87	70	7	Standard
	Sb	**121**	**-0.004**	ug/L	0.000	11	387	284	4	Standard
	Sb	**123**	**-0.005**	ug/L	0.001	13	284	207	5	Standard
	Ba	**135**	**-0.033**	ug/L	0.002	5	264	50	22	Standard
	Ba	**137**	**-0.034**	ug/L	0.001	2	443	74	15	Standard
>	**Tb**	**159**		ug/L			2771891	2815293	1	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	14	116	71	10	Standard
	Pb	**208**	**0.004**	ug/L	0.000	6	532	1034	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:50:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1177726	3	Standard
	Be	**9**	**0.006**	ug/L	0.002	30	13	51	22	Standard
	C	**13**		ug/L			30481	47703	0	Standard
	Cl	**37**		ug/L			8086439	7697404	1	Standard
>	**Sc**	**45**		ug/L			1349683	1475027	0	Standard
	V	**51**	**0.873**	ug/L	0.015	1	7438	34780	0	Standard
	V-1	**51**	**0.928**	ug/L	0.013	1	90	28368	0	Standard
	Cr	**52**	**0.114**	ug/L	0.015	13	21824	26799	0	Standard
	Cr	**53**	**0.294**	ug/L	0.009	2	116	977	1	Standard
		55		ug/L	0.008	0	1991	139254	0	Standard
>	**Ge**	**72**		ug/L			89878	89030	0	KED
	Ni	**60**	**0.244**	ug/L	0.009	3	14	368	3	KED
	Ni	**62**	**0.220**	ug/L	0.054	24	6	59	21	KED
	Cu	**63**	**0.454**	ug/L	0.015	3	115	2029	2	KED
	Cu	**65**	**0.452**	ug/L	0.022	4	62	1022	3	KED
	Zn	**66**	**0.954**	ug/L	0.026	2	209	793	2	KED
	Zn	**67**	**0.745**	ug/L	0.119	16	35	110	11	KED
		75		ug/L	0.010	2	3	108	2	KED
	Se	**78**	**0.055**	ug/L	0.065	118	12	14	15	KED
	Y	**89**		ug/L			830650	856502	2	Standard
	Kr	**83**		ug/L			62	60	7	Standard
>	**In-1**	**115**		ug/L			23226	23542	0	KED
	Cd	**111**	**-0.000**	ug/L	0.003	2423	3	3	31	KED
	Cd	**114**	**0.004**	ug/L	0.007	159	2	6	94	KED
>	**In**	**115**		ug/L			1635078	1622941	0	Standard
	Ag	**107**	**0.000**	ug/L	0.001	110	87	97	12	Standard
	Sb	**121**	**0.084**	ug/L	0.003	3	387	2408	3	Standard
	Sb	**123**	**0.089**	ug/L	0.000	0	284	1832	0	Standard
	Ba	**135**	**0.485**	ug/L	0.017	3	264	3351	2	Standard
	Ba	**137**	**0.474**	ug/L	0.016	3	443	5496	2	Standard
>	**Tb**	**159**		ug/L			2771891	2812043	0	Standard
	Tl	**205**	**0.005**	ug/L	0.000	8	116	537	6	Standard
	Pb	**208**	**0.039**	ug/L	0.001	2	532	5340	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:55:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1158255	1	Standard
	Be	**9**	**0.007**	ug/L	0.001	14	13	55	9	Standard
	C	**13**		ug/L			30481	48069	2	Standard
	Cl	**37**		ug/L			8086439	7689572	0	Standard
>	**Sc**	**45**		ug/L			1349683	1470894	0	Standard
	V	**51**	**0.880**	ug/L	0.014	1	7438	34924	1	Standard
	V-1	**51**	**0.941**	ug/L	0.012	1	90	28713	0	Standard
	Cr	**52**	**0.072**	ug/L	0.026	36	21824	25649	2	Standard
	Cr	**53**	**0.272**	ug/L	0.030	10	116	912	8	Standard
	Mn	**55**	**3.895**	ug/L	0.063	1	1991	157497	1	Standard
>	**Ge**	**72**		ug/L			89878	88039	0	KED
	Ni	**60**	**0.277**	ug/L	0.016	5	14	412	4	KED
	Ni	**62**	**0.320**	ug/L	0.040	12	6	81	10	KED
	Cu	**63**	**0.444**	ug/L	0.010	2	115	1967	2	KED
	Cu	**65**	**0.419**	ug/L	0.024	5	62	942	5	KED
	Zn	**66**	**0.947**	ug/L	0.086	9	209	779	5	KED
	Zn	**67**	**1.051**	ug/L	0.049	4	35	139	3	KED
		75		ug/L	0.016	4	3	114	4	KED
	Se	**78**	**0.070**	ug/L	0.059	84	12	14	12	KED
	Y	**89**		ug/L			830650	851174	1	Standard
	Kr	**83**		ug/L			62	57	1	Standard
>	**In-1**	**115**		ug/L			23226	23476	1	KED
	Cd	**111**	**0.004**	ug/L	0.008	203	3	4	52	KED
	Cd	**114**	**0.010**	ug/L	0.003	25	2	11	18	KED
>	**In**	**115**		ug/L			1635078	1653169	2	Standard
	Ag	**107**	**0.000**	ug/L	0.001	23713	87	88	19	Standard
	Sb	**121**	**0.081**	ug/L	0.002	2	387	2374	0	Standard
	Sb	**123**	**0.090**	ug/L	0.002	2	284	1884	3	Standard
	Ba	**135**	**0.457**	ug/L	0.013	2	264	3227	2	Standard
	Ba	**137**	**0.475**	ug/L	0.027	5	443	5604	2	Standard
>	**Tb**	**159**		ug/L			2771891	2796133	0	Standard
	Tl	**205**	**0.005**	ug/L	0.000	8	116	533	7	Standard
	Pb	**208**	**0.039**	ug/L	0.000	1	532	5213	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:00:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1090308	2	Standard
	Be	**9**	**0.014**	ug/L	0.002	14	13	92	12	Standard
	C	**13**		ug/L			30481	51048	1	Standard
	Cl	**37**		ug/L			8086439	9012892	0	Standard
>	**Sc**	**45**		ug/L			1349683	1667703	0	Standard
	V	**51**	**1.645**	ug/L	0.024	1	7438	65996	0	Standard
	V-1	**51**	**1.963**	ug/L	0.019	0	90	67738	0	Standard
	Cr	**52**	**0.499**	ug/L	0.007	1	21824	41549	0	Standard
	Cr	**53**	**1.559**	ug/L	0.018	1	116	5252	1	Standard
	Mn	**55**	**107.892**	ug/L	0.473	0	1991	4880644	1	Standard
>	**Ge**	**72**		ug/L			89878	80033	0	KED
	Ni	**60**	**0.339**	ug/L	0.014	3	14	455	3	KED
	Ni	**62**	**0.295**	ug/L	0.050	17	6	69	15	KED
	Cu	**63**	**1.198**	ug/L	0.015	1	115	4651	1	KED
	Cu	**65**	**1.163**	ug/L	0.016	1	62	2280	1	KED
	Zn	**66**	**18.174**	ug/L	0.383	2	209	10210	2	KED
	Zn	**67**	**17.302**	ug/L	0.527	3	35	1601	2	KED
		75		ug/L	0.053	13	3	105	14	KED
	Se	**78**	**0.079**	ug/L	0.123	155	12	13	27	KED
	Y	**89**		ug/L			830650	822135	1	Standard
	Kr	**83**		ug/L			62	62	7	Standard
>	**In-1**	**115**		ug/L			23226	21280	2	KED
	Cd	**111**	**0.051**	ug/L	0.033	64	3	18	50	KED
	Cd	**114**	**0.051**	ug/L	0.009	17	2	40	14	KED
>	**In**	**115**		ug/L			1635078	1510952	0	Standard
	Ag	**107**	**0.003**	ug/L	0.001	23	87	147	10	Standard
	Sb	**121**	**0.034**	ug/L	0.001	4	387	1120	2	Standard
	Sb	**123**	**0.037**	ug/L	0.002	4	284	862	3	Standard
	Ba	**135**	**3.736**	ug/L	0.023	0	264	22378	0	Standard
	Ba	**137**	**3.685**	ug/L	0.072	1	443	36998	1	Standard
>	**Tb**	**159**		ug/L			2771891	2713764	1	Standard
	Tl	**205**	**0.001**	ug/L	0.000	5	116	217	1	Standard
	Pb	**208**	**0.079**	ug/L	0.001	1	532	9842	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:05:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1090352	3	Standard
	Be	**9**	**0.002**	ug/L	0.000	20	13	26	7	Standard
	C	**13**		ug/L			30481	49877	0	Standard
	Cl	**37**		ug/L			8086439	8101501	0	Standard
>	**Sc**	**45**		ug/L			1349683	1600966	0	Standard
	V	**51**	**0.370**	ug/L	0.014	3	7438	21099	1	Standard
	V-1	**51**	**0.612**	ug/L	0.009	1	90	20351	0	Standard
	Cr	**52**	**0.111**	ug/L	0.028	25	21824	28989	1	Standard
	Cr	**53**	**0.921**	ug/L	0.010	1	116	3036	0	Standard
	Mn	**55**	**235.557**	ug/L	1.527	0	1991	10226012	0	Standard
>	**Ge**	**72**		ug/L			89878	80447	0	KED
	Ni	**60**	**1.013**	ug/L	0.011	1	14	1341	1	KED
	Ni	**62**	**0.994**	ug/L	0.057	5	6	219	5	KED
	Cu	**63**	**0.066**	ug/L	0.014	20	115	356	14	KED
	Cu	**65**	**0.064**	ug/L	0.019	29	62	179	20	KED
	Zn	**66**	**2.268**	ug/L	0.119	5	209	1444	4	KED
	Zn	**67**	**2.352**	ug/L	0.330	14	35	246	12	KED
		75		ug/L	0.017	17	3	29	15	KED
	Se	**78**	**0.011**	ug/L	0.054	503	12	11	14	KED
	Y	**89**		ug/L			830650	823679	2	Standard
	Kr	**83**		ug/L			62	109	8	Standard
>	**In-1**	**115**		ug/L			23226	21408	1	KED
	Cd	**111**	**0.002**	ug/L	0.003	166	3	3	25	KED
	Cd	**114**	**0.008**	ug/L	0.004	44	2	8	33	KED
>	**In**	**115**		ug/L			1635078	1539713	0	Standard
	Ag	**107**	**-0.000**	ug/L	0.000	74	87	73	9	Standard
	Sb	**121**	**0.041**	ug/L	0.002	5	387	1304	4	Standard
	Sb	**123**	**0.045**	ug/L	0.002	5	284	1009	4	Standard
	Ba	**135**	**4.811**	ug/L	0.082	1	264	29300	1	Standard
	Ba	**137**	**4.778**	ug/L	0.059	1	443	48770	0	Standard
>	**Tb**	**159**		ug/L			2771891	2747078	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	244	116	107	17	Standard
	Pb	**208**	**0.250**	ug/L	0.002	0	532	30253	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:10:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1080325	2	Standard
	Be	**9**	**0.022**	ug/L	0.005	23	13	134	19	Standard
	C	**13**		ug/L			30481	51462	0	Standard
	Cl	**37**		ug/L			8086439	8132609	1	Standard
>	**Sc**	**45**		ug/L			1349683	1526482	0	Standard
	V	**51**	**1.641**	ug/L	0.028	1	7438	60278	1	Standard
	V-1	**51**	**1.910**	ug/L	0.024	1	90	60337	0	Standard
	Cr	**52**	**0.164**	ug/L	0.011	6	21824	29069	0	Standard
	Cr	**53**	**1.058**	ug/L	0.008	0	116	3303	1	Standard
	Mn	**55**	**655.610**	ug/L	5.966	0	1991	27133448	0	Standard
>	**Ge**	**72**		ug/L			89878	82507	1	KED
	Ni	**60**	**1.525**	ug/L	0.076	4	14	2065	5	KED
	Ni	**62**	**1.429**	ug/L	0.093	6	6	321	7	KED
	Cu	**63**	**1.111**	ug/L	0.047	4	115	4451	2	KED
	Cu	**65**	**1.085**	ug/L	0.029	2	62	2196	1	KED
	Zn	**66**	**1.858**	ug/L	0.128	6	209	1248	5	KED
	Zn	**67**	**1.732**	ug/L	0.296	17	35	194	15	KED
		75		ug/L	0.209	2	3	1926	1	KED
	Se	**78**	**0.260**	ug/L	0.045	17	12	19	6	KED
	Y	**89**		ug/L			830650	895640	0	Standard
	Kr	**83**		ug/L			62	102	5	Standard
>	**In-1**	**115**		ug/L			23226	22189	0	KED
	Cd	**111**	**0.025**	ug/L	0.002	7	3	11	4	KED
	Cd	**114**	**0.040**	ug/L	0.002	5	2	34	5	KED
>	**In**	**115**		ug/L			1635078	1594078	0	Standard
	Ag	**107**	**0.001**	ug/L	0.000	10	87	106	2	Standard
	Sb	**121**	**0.110**	ug/L	0.001	1	387	2969	1	Standard
	Sb	**123**	**0.116**	ug/L	0.003	2	284	2254	1	Standard
	Ba	**135**	**1.195**	ug/L	0.016	1	264	7727	0	Standard
	Ba	**137**	**1.193**	ug/L	0.021	1	443	12934	2	Standard
>	**Tb**	**159**		ug/L			2771891	2795125	0	Standard
	Tl	**205**	**0.018**	ug/L	0.000	2	116	1768	3	Standard
	Pb	**208**	**0.012**	ug/L	0.000	2	532	1974	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:16:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1093496	0	Standard
	Be	**9**	**0.003**	ug/L	0.001	27	13	31	15	Standard
	C	**13**		ug/L			30481	49963	1	Standard
	Cl	**37**		ug/L			8086439	8102382	1	Standard
>	**Sc**	**45**		ug/L			1349683	1598900	1	Standard
	V	**51**	**0.187**	ug/L	0.004	2	7438	14997	0	Standard
	V-1	**51**	**0.591**	ug/L	0.006	1	90	19629	0	Standard
	Cr	**52**	**0.066**	ug/L	0.008	11	21824	27694	1	Standard
	Cr	**53**	**1.424**	ug/L	0.024	1	116	4610	1	Standard
	Mn	**55**	**591.951**	ug/L	6.910	1	1991	25660288	1	Standard
>	**Ge**	**72**		ug/L			89878	81376	0	KED
	Ni	**60**	**1.372**	ug/L	0.045	3	14	1833	3	KED
	Ni	**62**	**1.394**	ug/L	0.206	14	6	309	15	KED
	Cu	**63**	**0.049**	ug/L	0.007	14	115	295	9	KED
	Cu	**65**	**0.045**	ug/L	0.010	21	62	143	13	KED
	Zn	**66**	**3.108**	ug/L	0.102	3	209	1932	2	KED
	Zn	**67**	**2.768**	ug/L	0.174	6	35	287	5	KED
		75		ug/L	0.012	5	3	61	5	KED
	Se	**78**	**0.112**	ug/L	0.050	44	12	14	10	KED
	Y	**89**		ug/L			830650	824105	1	Standard
	Kr	**83**		ug/L			62	89	9	Standard
>	**In-1**	**115**		ug/L			23226	21155	1	KED
	Cd	**111**	**0.013**	ug/L	0.012	95	3	6	51	KED
	Cd	**114**	**0.009**	ug/L	0.002	25	2	9	19	KED
>	**In**	**115**		ug/L			1635078	1535403	1	Standard
	Ag	**107**	**-0.001**	ug/L	0.001	104	87	69	17	Standard
	Sb	**121**	**0.007**	ug/L	0.003	38	387	518	12	Standard
	Sb	**123**	**0.008**	ug/L	0.002	29	284	404	10	Standard
	Ba	**135**	**2.275**	ug/L	0.019	0	264	13947	1	Standard
	Ba	**137**	**2.274**	ug/L	0.040	1	443	23365	0	Standard
>	**Tb**	**159**		ug/L			2771891	2794126	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	95	116	114	1	Standard
	Pb	**208**	**0.005**	ug/L	0.000	2	532	1080	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:22:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1028775	3	Standard
	Be	**9**	**0.015**	ug/L	0.002	15	13	92	10	Standard
	C	**13**		ug/L			30481	54495	1	Standard
	Cl	**37**		ug/L			8086439	8347529	1	Standard
>	**Sc**	**45**		ug/L			1349683	1509399	2	Standard
	V	**51**	**1.761**	ug/L	0.028	1	7438	63345	2	Standard
	V-1	**51**	**2.504**	ug/L	0.038	1	90	78192	1	Standard
	Cr	**52**	**0.192**	ug/L	0.031	15	21824	29481	1	Standard
	Cr	**53**	**2.682**	ug/L	0.079	2	116	8079	0	Standard
	Mn	**55**	**536.055**	ug/L	10.077	1	1991	21930867	1	Standard
>	**Ge**	**72**		ug/L			89878	77333	0	KED
	Ni	**60**	**5.947**	ug/L	0.064	1	14	7513	1	KED
	Ni	**62**	**5.954**	ug/L	0.221	3	6	1234	3	KED
	Cu	**63**	**5.790**	ug/L	0.048	0	115	21333	0	KED
	Cu	**65**	**5.726**	ug/L	0.086	1	62	10643	1	KED
	Zn	**66**	**5.278**	ug/L	0.109	2	209	2993	2	KED
	Zn	**67**	**4.641**	ug/L	0.197	4	35	437	4	KED
		75		ug/L	0.030	1	3	436	1	KED
	Se	**78**	**0.234**	ug/L	0.108	46	12	17	18	KED
	Y	**89**		ug/L			830650	883473	3	Standard
	Kr	**83**		ug/L			62	108	9	Standard
>	**In-1**	**115**		ug/L			23226	21164	1	KED
	Cd	**111**	**0.054**	ug/L	0.013	24	3	18	19	KED
	Cd	**114**	**0.072**	ug/L	0.006	7	2	56	8	KED
>	**In**	**115**		ug/L			1635078	1516486	1	Standard
	Ag	**107**	**0.004**	ug/L	0.001	19	87	165	8	Standard
	Sb	**121**	**0.122**	ug/L	0.002	1	387	3091	2	Standard
	Sb	**123**	**0.126**	ug/L	0.005	3	284	2302	2	Standard
	Ba	**135**	**3.492**	ug/L	0.112	3	264	21009	2	Standard
	Ba	**137**	**3.492**	ug/L	0.061	1	443	35216	0	Standard
>	**Tb**	**159**		ug/L			2771891	2679846	0	Standard
	Tl	**205**	**0.038**	ug/L	0.000	0	116	3387	0	Standard
	Pb	**208**	**0.003**	ug/L	0.001	19	532	854	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:30:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1136164	2	Standard
	Be	**9**	**-0.001**	ug/L	0.000	14	13	6	17	Standard
	C	**13**		ug/L			30481	30491	0	Standard
	Cl	**37**		ug/L			8086439	8329411	0	Standard
>	**Sc**	**45**		ug/L			1349683	1344448	1	Standard
	V	**51**	**-0.001**	ug/L	0.006	455	7438	7368	0	Standard
	V-1	**51**	**0.009**	ug/L	0.001	11	90	334	6	Standard
	Cr	**52**	**-0.013**	ug/L	0.016	121	21824	21433	0	Standard
	Cr	**53**	**0.021**	ug/L	0.004	17	116	172	7	Standard
	Mn	**55**	**-0.022**	ug/L	0.001	5	1991	1193	4	Standard
>	**Ge**	**72**		ug/L			89878	84688	1	KED
	Ni	**60**	**0.001**	ug/L	0.003	232	14	15	21	KED
	Ni	**62**	**-0.009**	ug/L	0.020	213	6	4	98	KED
	Cu	**63**	**-0.004**	ug/L	0.003	81	115	92	13	KED
	Cu	**65**	**-0.010**	ug/L	0.002	19	62	39	10	KED
	Zn	**66**	**-0.176**	ug/L	0.025	14	209	94	16	KED
	Zn	**67**	**-0.250**	ug/L	0.086	34	35	9	87	KED
	As	**75**	**-0.003**	ug/L	0.002	61	3	2	16	KED
	Se	**78**	**-0.066**	ug/L	0.020	30	12	9	7	KED
	Y	**89**		ug/L			830650	802180	2	Standard
	Kr	**83**		ug/L			62	49	15	Standard
>	**In-1**	**115**		ug/L			23226	22776	0	KED
	Cd	**111**	**-0.005**	ug/L	0.000	0	3	1		KED
	Cd	**114**	**-0.002**	ug/L	0.001	86	2	1	108	KED
>	**In**	**115**		ug/L			1635078	1595853	1	Standard
	Ag	**107**	**-0.001**	ug/L	0.000	42	87	64	14	Standard
	Sb	**121**	**-0.010**	ug/L	0.001	6	387	132	10	Standard
	Sb	**123**	**-0.009**	ug/L	0.000	4	284	119	5	Standard
	Ba	**135**	**-0.034**	ug/L	0.001	4	264	47	18	Standard
	Ba	**137**	**-0.036**	ug/L	0.001	2	443	59	16	Standard
>	**Tb**	**159**		ug/L			2771891	2693403	0	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	8	116	57	8	Standard
	Pb	**208**	**0.004**	ug/L	0.000	1	532	1017	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:35:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1072051	2	Standard
	Be	**9**	**49.528**	ug/L	0.902	1	13	265942	0	Standard
	C	**13**		ug/L			30481	29734	1	Standard
	Cl	**37**		ug/L			8086439	8535221	1	Standard
>	**Sc**	**45**		ug/L			1349683	1319372	1	Standard
	V	**51**	**48.162**	ug/L	0.206	0	7438	1323180	1	Standard
	V-1	**51**	**48.696**	ug/L	0.332	0	90	1327585	1	Standard
	Cr	**52**	**48.749**	ug/L	0.452	0	21824	1147936	1	Standard
	Cr	**53**	**50.551**	ug/L	0.829	1	116	131125	0	Standard
	Mn	**55**	**50.857**	ug/L	0.653	1	1991	1820779	0	Standard
>	**Ge**	**72**		ug/L			89878	83335	0	KED
	Ni	**60**	**50.435**	ug/L	0.627	1	14	68559	0	KED
	Ni	**62**	**50.064**	ug/L	1.660	3	6	11142	2	KED
	Cu	**63**	**51.887**	ug/L	0.850	1	115	205143	1	KED
	Cu	**65**	**51.499**	ug/L	1.054	2	62	102698	1	KED
	Zn	**66**	**51.579**	ug/L	0.309	0	209	29814	0	KED
	Zn	**67**	**51.457**	ug/L	0.500	0	35	4894	0	KED
	As	**75**	**49.897**	ug/L	0.284	0	3	13779	0	KED
	Se	**78**	**48.889**	ug/L	0.456	0	12	1514	0	KED
	Y	**89**		ug/L			830650	817176	1	Standard
	Kr	**83**		ug/L			62	60	16	Standard
>	**In-1**	**115**		ug/L			23226	21926	0	KED
	Cd	**111**	**52.526**	ug/L	1.455	2	3	15836	1	KED
	Cd	**114**	**52.692**	ug/L	0.832	1	2	41057	0	KED
>	**In**	**115**		ug/L			1635078	1569448	1	Standard
	Ag	**107**	**50.063**	ug/L	0.475	0	87	1091620	0	Standard
	Sb	**121**	**48.000**	ug/L	0.564	1	387	1113585	0	Standard
	Sb	**123**	**50.087**	ug/L	0.446	0	284	841466	0	Standard
	Ba	**135**	**47.309**	ug/L	0.671	1	264	291391	0	Standard
	Ba	**137**	**47.133**	ug/L	0.387	0	443	486580	0	Standard
>	**Tb**	**159**		ug/L			2771891	2760459	0	Standard
	Tl	**205**	**52.061**	ug/L	0.814	1	116	4602954	0	Standard
	Pb	**208**	**48.542**	ug/L	0.704	1	532	5793232	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:43:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1100690	2	Standard
	Be	**9**	**-0.000**	ug/L	0.000	801	13	13	14	Standard
	C	**13**		ug/L			30481	29722	1	Standard
	Cl	**37**		ug/L			8086439	8282301	0	Standard
>	**Sc**	**45**		ug/L			1349683	1332122	1	Standard
	V	**51**	**-0.011**	ug/L	0.002	22	7438	7032	0	Standard
	V-1	**51**	**0.005**	ug/L	0.001	17	90	233	9	Standard
	Cr	**52**	**-0.030**	ug/L	0.009	31	21824	20832	0	Standard
	Cr	**53**	**0.025**	ug/L	0.003	10	116	179	2	Standard
	Mn	**55**	**-0.022**	ug/L	0.002	7	1991	1187	4	Standard
>	**Ge**	**72**		ug/L			89878	83909	0	KED
	Ni	**60**	**0.010**	ug/L	0.001	15	14	26	7	KED
	Ni	**62**	**-0.001**	ug/L	0.027	3368	6	6	96	KED
	Cu	**63**	**0.003**	ug/L	0.005	180	115	120	18	KED
	Cu	**65**	**-0.002**	ug/L	0.004	217	62	54	14	KED
	Zn	**66**	**-0.148**	ug/L	0.022	14	209	109	11	KED
	Zn	**67**	**-0.122**	ug/L	0.092	75	35	21	40	KED
	As	**75**	**-0.000**	ug/L	0.005	2357	3	3	41	KED
	Se	**78**	**-0.024**	ug/L	0.057	233	12	10	15	KED
	Y	**89**		ug/L			830650	789443	0	Standard
	Kr	**83**		ug/L			62	56	1	Standard
>	**In-1**	**115**		ug/L			23226	23035	0	KED
	Cd	**111**	**-0.002**	ug/L	0.005	264	3	2	57	KED
	Cd	**114**	**-0.001**	ug/L	0.002	282	2	1	117	KED
>	**In**	**115**		ug/L			1635078	1596678	1	Standard
	Ag	**107**	**0.001**	ug/L	0.001	44	87	118	12	Standard
	Sb	**121**	**0.030**	ug/L	0.000	0	387	1094	0	Standard
	Sb	**123**	**0.032**	ug/L	0.004	12	284	826	6	Standard
	Ba	**135**	**-0.026**	ug/L	0.002	8	264	92	13	Standard
	Ba	**137**	**-0.028**	ug/L	0.002	6	443	140	12	Standard
>	**Tb**	**159**		ug/L			2771891	2693000	0	Standard
	Tl	**205**	**0.000**	ug/L	0.000	68	116	156	18	Standard
	Pb	**208**	**0.004**	ug/L	0.000	4	532	1032	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:48:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1054651	4	Standard
	Be	**9**	**0.010**	ug/L	0.002	15	13	66	15	Standard
	C	**13**		ug/L			30481	49243	0	Standard
	Cl	**37**		ug/L			8086439	8048542	1	Standard
>	**Sc**	**45**		ug/L			1349683	1561856	0	Standard
	V	**51**	**0.445**	ug/L	0.010	2	7438	22986	1	Standard
	V-1	**51**	**0.941**	ug/L	0.010	1	90	30488	1	Standard
	Cr	**52**	**0.145**	ug/L	0.010	7	21824	29230	0	Standard
	Cr	**53**	**1.814**	ug/L	0.047	2	116	5702	2	Standard
	Mn	**55**	**614.380**	ug/L	13.073	2	1991	26015327	1	Standard
>	**Ge**	**72**		ug/L			89878	79341	0	KED
	Ni	**60**	**0.620**	ug/L	0.034	5	14	815	4	KED
	Ni	**62**	**0.546**	ug/L	0.018	3	6	121	3	KED
	Cu	**63**	**0.071**	ug/L	0.008	11	115	370	8	KED
	Cu	**65**	**0.063**	ug/L	0.017	27	62	175	18	KED
	Zn	**66**	**2.393**	ug/L	0.079	3	209	1493	2	KED
	Zn	**67**	**2.234**	ug/L	0.233	10	35	232	9	KED
		75		ug/L	0.019	18	3	29	16	KED
	Se	**78**	**0.089**	ug/L	0.057	63	12	13	12	KED
	Y	**89**		ug/L			830650	822385	0	Standard
	Kr	**83**		ug/L			62	102	16	Standard
>	**In-1**	**115**		ug/L			23226	21339	1	KED
	Cd	**111**	**0.001**	ug/L	0.002	183	3	3	15	KED
	Cd	**114**	**0.004**	ug/L	0.004	100	2	5	59	KED
>	**In**	**115**		ug/L			1635078	1549014	1	Standard
	Ag	**107**	**0.001**	ug/L	0.001	70	87	99	10	Standard
	Sb	**121**	**0.022**	ug/L	0.002	10	387	873	6	Standard
	Sb	**123**	**0.019**	ug/L	0.003	15	284	591	8	Standard
	Ba	**135**	**3.907**	ug/L	0.042	1	264	23980	1	Standard
	Ba	**137**	**3.896**	ug/L	0.119	3	443	40075	1	Standard
>	**Tb**	**159**		ug/L			2771891	2769934	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	307	116	111	12	Standard
	Pb	**208**	**0.006**	ug/L	0.001	12	532	1278	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:53:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1053632	1	Standard
	Be	**9**	**0.009**	ug/L	0.001	11	13	62	9	Standard
	C	**13**		ug/L			30481	47657	0	Standard
	Cl	**37**		ug/L			8086439	8284608	1	Standard
>	**Sc**	**45**		ug/L			1349683	1580581	0	Standard
	V	**51**	**1.406**	ug/L	0.029	2	7438	54733	1	Standard
	V-1	**51**	**1.904**	ug/L	0.029	1	90	62301	1	Standard
	Cr	**52**	**0.219**	ug/L	0.010	4	21824	31615	0	Standard
	Cr	**53**	**1.886**	ug/L	0.019	0	116	5992	0	Standard
	Mn	**55**	**1032.475**	ug/L	10.759	1	1991	44244534	1	Standard
>	**Ge**	**72**		ug/L			89878	80096	0	KED
	Ni	**60**	**1.122**	ug/L	0.050	4	14	1479	4	KED
	Ni	**62**	**1.129**	ug/L	0.043	3	6	247	4	KED
	Cu	**63**	**0.216**	ug/L	0.014	6	115	923	5	KED
	Cu	**65**	**0.213**	ug/L	0.022	10	62	464	9	KED
	Zn	**66**	**1.668**	ug/L	0.061	3	209	1107	2	KED
	Zn	**67**	**1.588**	ug/L	0.006	0	35	175	0	KED
		75		ug/L	0.095	0	3	2849	1	KED
	Se	**78**	**0.062**	ug/L	0.052	85	12	12	11	KED
	Y	**89**		ug/L			830650	829435	1	Standard
	Kr	**83**		ug/L			62	116	22	Standard
>	**In-1**	**115**		ug/L			23226	21548	0	KED
	Cd	**111**	**0.006**	ug/L	0.004	59	3	5	21	KED
	Cd	**114**	**0.007**	ug/L	0.006	86	2	7	62	KED
>	**In**	**115**		ug/L			1635078	1551300	0	Standard
	Ag	**107**	**0.000**	ug/L	0.001	298	87	90	23	Standard
	Sb	**121**	**0.024**	ug/L	0.004	15	387	911	8	Standard
	Sb	**123**	**0.023**	ug/L	0.003	14	284	658	8	Standard
	Ba	**135**	**1.599**	ug/L	0.003	0	264	9979	0	Standard
	Ba	**137**	**1.603**	ug/L	0.034	2	443	16762	2	Standard
>	**Tb**	**159**		ug/L			2771891	2771790	0	Standard
	Tl	**205**	**0.007**	ug/L	0.000	5	116	709	5	Standard
	Pb	**208**	**0.003**	ug/L	0.000	17	532	860	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:59:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1040222	3	Standard
	Be	**9**	**0.001**	ug/L	0.002	157	13	17	43	Standard
	C	**13**		ug/L			30481	47717	2	Standard
	Cl	**37**		ug/L			8086439	8912941	0	Standard
>	**Sc**	**45**		ug/L			1349683	1565015	1	Standard
	V	**51**	**0.214**	ug/L	0.026	12	7438	15570	4	Standard
	V-1	**51**	**1.255**	ug/L	0.013	1	90	40688	0	Standard
	Cr	**52**	**0.117**	ug/L	0.015	12	21824	28502	0	Standard
	Cr	**53**	**3.616**	ug/L	0.059	1	116	11253	2	Standard
	Mn	**55**	**1787.003**	ug/L	35.941	2	1991	75804127	0	Standard
>	**Ge**	**72**		ug/L			89878	79337	0	KED
	Ni	**60**	**2.152**	ug/L	0.060	2	14	2797	2	KED
	Ni	**62**	**2.021**	ug/L	0.037	1	6	434	2	KED
	Cu	**63**	**0.028**	ug/L	0.002	6	115	206	2	KED
	Cu	**65**	**0.034**	ug/L	0.002	6	62	119	4	KED
	Zn	**66**	**1.339**	ug/L	0.059	4	209	916	3	KED
	Zn	**67**	**1.338**	ug/L	0.218	16	35	151	13	KED
		75		ug/L	0.170	1	3	2967	2	KED
	Se	**78**	**-0.000**	ug/L	0.164	33829	12	10	43	KED
	Y	**89**		ug/L			830650	806583	1	Standard
	Kr	**83**		ug/L			62	109	5	Standard
>	**In-1**	**115**		ug/L			23226	21395	1	KED
	Cd	**111**	**-0.000**	ug/L	0.004	2659	3	3	34	KED
	Cd	**114**	**0.000**	ug/L	0.001	471	2	2	46	KED
>	**In**	**115**		ug/L			1635078	1531135	0	Standard
	Ag	**107**	**0.000**	ug/L	0.000	194	87	86	8	Standard
	Sb	**121**	**0.021**	ug/L	0.002	8	387	840	5	Standard
	Sb	**123**	**0.023**	ug/L	0.004	16	284	640	9	Standard
	Ba	**135**	**0.334**	ug/L	0.006	1	264	2254	1	Standard
	Ba	**137**	**0.328**	ug/L	0.009	2	443	3719	1	Standard
>	**Tb**	**159**		ug/L			2771891	2858947	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	15	116	223	7	Standard
	Pb	**208**	**0.003**	ug/L	0.000	10	532	875	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:05:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	943177	1	Standard
	Be	**9**	**0.004**	ug/L	0.002	42	13	30	27	Standard
	C	**13**		ug/L			30481	54835	0	Standard
	Cl	**37**		ug/L			8086439	8708395	0	Standard
>	**Sc**	**45**		ug/L			1349683	1695040	1	Standard
	V	**51**	**0.741**	ug/L	0.010	1	7438	35365	0	Standard
	V-1	**51**	**1.026**	ug/L	0.015	1	90	36030	0	Standard
	Cr	**52**	**-0.024**	ug/L	0.011	46	21824	26703	0	Standard
	Cr	**53**	**0.926**	ug/L	0.033	3	116	3230	1	Standard
	Mn	**55**	**2893.577**	ug/L	49.242	1	1991	132951395	0	Standard
>	**Ge**	**72**		ug/L			89878	73051	0	KED
	Ni	**60**	**5.277**	ug/L	0.155	2	14	6299	3	KED
	Ni	**62**	**5.291**	ug/L	0.144	2	6	1037	2	KED
	Cu	**63**	**0.311**	ug/L	0.008	2	115	1170	2	KED
	Cu	**65**	**0.304**	ug/L	0.022	7	62	582	7	KED
	Zn	**66**	**1.020**	ug/L	0.089	8	209	683	5	KED
	Zn	**67**	**0.961**	ug/L	0.315	32	35	108	24	KED
		75		ug/L	0.221	0	3	10716	0	KED
	Se	**78**	**0.330**	ug/L	0.170	51	12	18	23	KED
	Y	**89**		ug/L			830650	771238	0	Standard
	Kr	**83**		ug/L			62	107	6	Standard
>	**In-1**	**115**		ug/L			23226	19919	0	KED
	Cd	**111**	**0.002**	ug/L	0.005	291	3	3	41	KED
	Cd	**114**	**0.005**	ug/L	0.003	64	2	5	39	KED
>	**In**	**115**		ug/L			1635078	1434130	1	Standard
	Ag	**107**	**0.004**	ug/L	0.001	29	87	151	14	Standard
	Sb	**121**	**0.119**	ug/L	0.008	6	387	2858	4	Standard
	Sb	**123**	**0.118**	ug/L	0.005	4	284	2057	4	Standard
	Ba	**135**	**0.548**	ug/L	0.021	3	264	3312	2	Standard
	Ba	**137**	**0.541**	ug/L	0.007	1	443	5491	1	Standard
>	**Tb**	**159**		ug/L			2771891	2804735	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	10	116	321	6	Standard
	Pb	**208**	**0.001**	ug/L	0.000	5	532	659	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:14:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1079835	1	Standard
	Be	**9**	**-0.001**	ug/L	0.001	95	13	8	58	Standard
	C	**13**		ug/L			30481	29352	0	Standard
	Cl	**37**		ug/L			8086439	8071877	0	Standard
>	**Sc**	**45**		ug/L			1349683	1330851	0	Standard
	V	**51**	**-0.003**	ug/L	0.003	84	7438	7251	1	Standard
	V-1	**51**	**0.014**	ug/L	0.000	2	90	470	1	Standard
	Cr	**52**	**-0.009**	ug/L	0.009	103	21824	21307	2	Standard
	Cr	**53**	**0.047**	ug/L	0.003	5	116	239	3	Standard
	Mn	**55**	**0.033**	ug/L	0.002	6	1991	3163	3	Standard
>	**Ge**	**72**		ug/L			89878	86202	0	KED
	Ni	**60**	**0.001**	ug/L	0.002	156	14	15	18	KED
	Ni	**62**	**0.001**	ug/L	0.031	2467	6	6	103	KED
	Cu	**63**	**0.006**	ug/L	0.003	51	115	137	9	KED
	Cu	**65**	**0.008**	ug/L	0.007	89	62	76	20	KED
	Zn	**66**	**-0.028**	ug/L	0.057	199	209	184	18	KED
	Zn	**67**	**-0.031**	ug/L	0.011	34	35	31	3	KED
	As	**75**	**0.001**	ug/L	0.007	1315	3	3	54	KED
	Se	**78**	**-0.041**	ug/L	0.017	42	12	10	5	KED
	Y	**89**		ug/L			830650	820564	1	Standard
	Kr	**83**		ug/L			62	55	20	Standard
>	**In-1**	**115**		ug/L			23226	23281	0	KED
	Cd	**111**	**-0.003**	ug/L	0.005	149	3	2	57	KED
	Cd	**114**	**-0.001**	ug/L	0.004	698	2	2	143	KED
>	**In**	**115**		ug/L			1635078	1646310	0	Standard
	Ag	**107**	**-0.001**	ug/L	0.000	45	87	64	16	Standard
	Sb	**121**	**0.014**	ug/L	0.002	11	387	735	6	Standard
	Sb	**123**	**0.014**	ug/L	0.001	5	284	535	3	Standard
	Ba	**135**	**-0.025**	ug/L	0.001	2	264	106	3	Standard
	Ba	**137**	**-0.027**	ug/L	0.001	2	443	158	4	Standard
>	**Tb**	**159**		ug/L			2771891	2734008	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	32	116	86	11	Standard
	Pb	**208**	**0.005**	ug/L	0.000	7	532	1121	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:19:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	966481	5	Standard
	Be	**9**	**0.030**	ug/L	0.004	15	13	154	9	Standard
	C	**13**		ug/L			30481	78539	1	Standard
	Cl	**37**		ug/L			8086439	7930546	1	Standard
>	**Sc**	**45**		ug/L			1349683	1569908	2	Standard
	V	**51**	**8.540**	ug/L	0.219	2	7438	286171	0	Standard
	V-1	**51**	**8.703**	ug/L	0.209	2	90	282287	0	Standard
	Cr	**52**	**0.806**	ug/L	0.043	5	21824	47534	0	Standard
	Cr	**53**	**1.295**	ug/L	0.011	0	116	4129	2	Standard
	Mn	**55**	**3385.570**	ug/L	53.514	1	1991	144051587	1	Standard
>	**Ge**	**72**		ug/L			89878	75968	0	KED
	Ni	**60**	**4.158**	ug/L	0.071	1	14	5164	1	KED
	Ni	**62**	**4.267**	ug/L	0.178	4	6	871	3	KED
	Cu	**63**	**0.368**	ug/L	0.011	2	115	1423	2	KED
	Cu	**65**	**0.347**	ug/L	0.036	10	62	682	8	KED
	Zn	**66**	**10.677**	ug/L	0.403	3	209	5766	3	KED
	Zn	**67**	**10.340**	ug/L	0.367	3	35	920	3	KED
		75		ug/L	0.164	0	3	4654	0	KED
	Se	**78**	**1.058**	ug/L	0.234	22	12	40	16	KED
	Y	**89**		ug/L			830650	913654	4	Standard
	Kr	**83**		ug/L			62	137	6	Standard
>	**In-1**	**115**		ug/L			23226	20479	1	KED
	Cd	**111**	**-0.001**	ug/L	0.009	1193	3	2	88	KED
	Cd	**114**	**0.004**	ug/L	0.002	57	2	5	33	KED
>	**In**	**115**		ug/L			1635078	1457093	3	Standard
	Ag	**107**	**0.035**	ug/L	0.003	8	87	792	4	Standard
	Sb	**121**	**0.248**	ug/L	0.006	2	387	5681	2	Standard
	Sb	**123**	**0.269**	ug/L	0.009	3	284	4453	2	Standard
	Ba	**135**	**6.010**	ug/L	0.193	3	264	34554	0	Standard
	Ba	**137**	**6.063**	ug/L	0.142	2	443	58427	1	Standard
>	**Tb**	**159**		ug/L			2771891	2754949	3	Standard
	Tl	**205**	**0.015**	ug/L	0.000	1	116	1478	3	Standard
	Pb	**208**	**0.043**	ug/L	0.001	3	532	5647	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:24:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1000552	1	Standard
	Be	**9**	**0.008**	ug/L	0.000	5	13	53	3	Standard
	C	**13**		ug/L			30481	49251	1	Standard
	Cl	**37**		ug/L			8086439	9433299	0	Standard
>	**Sc**	**45**		ug/L			1349683	1727571	1	Standard
	V	**51**	**0.711**	ug/L	0.012	1	7438	34970	1	Standard
	V-1	**51**	**1.160**	ug/L	0.011	0	90	41527	1	Standard
	Cr	**52**	**0.205**	ug/L	0.027	13	21824	34126	1	Standard
	Cr	**53**	**1.711**	ug/L	0.041	2	116	5953	0	Standard
	Mn	**55**	**3012.073**	ug/L	32.713	1	1991	141055224	1	Standard
>	**Ge**	**72**		ug/L			89878	78442	0	KED
	Ni	**60**	**1.192**	ug/L	0.025	2	14	1537	1	KED
	Ni	**62**	**1.293**	ug/L	0.110	8	6	276	8	KED
	Cu	**63**	**0.433**	ug/L	0.003	0	115	1711	0	KED
	Cu	**65**	**0.467**	ug/L	0.008	1	62	930	1	KED
	Zn	**66**	**1.070**	ug/L	0.011	1	209	761	0	KED
	Zn	**67**	**1.072**	ug/L	0.230	21	35	126	15	KED
		75		ug/L	0.091	0	3	2429	0	KED
	Se	**78**	**0.202**	ug/L	0.048	23	12	16	8	KED
	Y	**89**		ug/L			830650	793764	1	Standard
	Kr	**83**		ug/L			62	106	6	Standard
>	**In-1**	**115**		ug/L			23226	20752	1	KED
	Cd	**111**	**-0.001**	ug/L	0.003	335	3	2	33	KED
	Cd	**114**	**0.001**	ug/L	0.006	578	2	2	141	KED
>	**In**	**115**		ug/L			1635078	1513520	0	Standard
	Ag	**107**	**0.001**	ug/L	0.000	54	87	95	7	Standard
		121		ug/L	0.000	1	387	760	0	Standard
	Sb	**123**	**0.020**	ug/L	0.001	5	284	592	3	Standard
	Ba	**135**	**1.196**	ug/L	0.007	0	264	7343	1	Standard
	Ba	**137**	**1.220**	ug/L	0.005	0	443	12543	0	Standard
>	**Tb**	**159**		ug/L			2771891	2871589	1	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	235	116	114	12	Standard
		208		ug/L	0.000	8	532	989	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:29:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	997499	2	Standard
	Be	**9**	**0.012**	ug/L	0.000	3	13	74	5	Standard
	C	**13**		ug/L			30481	48929	0	Standard
	Cl	**37**		ug/L			8086439	9352157	0	Standard
>	**Sc**	**45**		ug/L			1349683	1714394	1	Standard
	V	**51**	**0.721**	ug/L	0.009	1	7438	35059	0	Standard
	V-1	**51**	**1.165**	ug/L	0.010	0	90	41371	1	Standard
	Cr	**52**	**0.217**	ug/L	0.014	6	21824	34241	0	Standard
	Cr	**53**	**1.704**	ug/L	0.025	1	116	5887	1	Standard
	Mn	**55**	**3031.739**	ug/L	37.688	1	1991	140892620	0	Standard
>	**Ge**	**72**		ug/L			89878	78016	1	KED
	Ni	**60**	**1.204**	ug/L	0.032	2	14	1544	1	KED
	Ni	**62**	**1.266**	ug/L	0.034	2	6	269	3	KED
	Cu	**63**	**3.445**	ug/L	0.070	2	115	12845	0	KED
	Cu	**65**	**3.420**	ug/L	0.087	2	62	6434	2	KED
	Zn	**66**	**2.679**	ug/L	0.147	5	209	1622	5	KED
	Zn	**67**	**2.501**	ug/L	0.023	0	35	252	1	KED
		75		ug/L	0.093	0	3	2437	0	KED
	Se	**78**	**0.220**	ug/L	0.062	28	12	17	11	KED
	Y	**89**		ug/L			830650	789044	1	Standard
	Kr	**83**		ug/L			62	97	13	Standard
>	**In-1**	**115**		ug/L			23226	20945	0	KED
	Cd	**111**	**-0.001**	ug/L	0.003	318	3	2	33	KED
	Cd	**114**	**0.004**	ug/L	0.003	63	2	5	37	KED
>	**In**	**115**		ug/L			1635078	1482507	0	Standard
	Ag	**107**	**0.002**	ug/L	0.001	49	87	121	16	Standard
		121		ug/L	0.000	2	387	829	1	Standard
	Sb	**123**	**0.024**	ug/L	0.003	11	284	631	5	Standard
	Ba	**135**	**1.228**	ug/L	0.043	3	264	7377	2	Standard
	Ba	**137**	**1.239**	ug/L	0.016	1	443	12477	0	Standard
>	**Tb**	**159**		ug/L			2771891	2845550	0	Standard
	Tl	**205**	**0.003**	ug/L	0.000	7	116	355	4	Standard
		208		ug/L	0.001	2	532	5356	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:36:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	980543	2	Standard
	Be	**9**	**24.075**	ug/L	0.216	0	13	118264	1	Standard
	C	**13**		ug/L			30481	47835	0	Standard
	Cl	**37**		ug/L			8086439	9327794	0	Standard
>	**Sc**	**45**		ug/L			1349683	1691009	1	Standard
	V	**51**	**18.828**	ug/L	0.237	1	7438	668645	1	Standard
	V-1	**51**	**19.488**	ug/L	0.259	1	90	681005	1	Standard
	Cr	**52**	**18.266**	ug/L	0.207	1	21824	568385	0	Standard
	Cr	**53**	**20.480**	ug/L	0.254	1	116	68180	1	Standard
	Mn	**55**	**3015.215**	ug/L	27.895	0	1991	138219374	0	Standard
>	**Ge**	**72**		ug/L			89878	76931	0	KED
	Ni	**60**	**27.179**	ug/L	0.743	2	14	34110	2	KED
	Ni	**62**	**27.012**	ug/L	1.060	3	6	5552	3	KED
	Cu	**63**	**25.486**	ug/L	0.087	0	115	93072	0	KED
	Cu	**65**	**25.447**	ug/L	0.179	0	62	46871	0	KED
	Zn	**66**	**76.687**	ug/L	0.815	1	209	40832	0	KED
	Zn	**67**	**72.871**	ug/L	0.822	1	35	6386	2	KED
		75		ug/L	0.173	0	3	8706	0	KED
	Se	**78**	**75.171**	ug/L	2.115	2	12	2143	2	KED
	Y	**89**		ug/L			830650	784843	1	Standard
	Kr	**83**		ug/L			62	101	8	Standard
>	**In-1**	**115**		ug/L			23226	20610	1	KED
	Cd	**111**	**25.166**	ug/L	0.114	0	3	7134	1	KED
	Cd	**114**	**25.116**	ug/L	0.534	2	2	18395	0	KED
>	**In**	**115**		ug/L			1635078	1474421	0	Standard
	Ag	**107**	**22.971**	ug/L	0.093	0	87	470642	0	Standard
		121		ug/L	0.250	1	387	510885	1	Standard
	Sb	**123**	**24.386**	ug/L	0.326	1	284	385035	1	Standard
	Ba	**135**	**27.859**	ug/L	0.305	1	264	161322	1	Standard
	Ba	**137**	**28.522**	ug/L	0.135	0	443	276792	0	Standard
>	**Tb**	**159**		ug/L			2771891	2848086	0	Standard
	Tl	**205**	**20.891**	ug/L	0.284	1	116	1905808	1	Standard
		208		ug/L	0.165	0	532	2562723	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:44:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1084314	1090091	1	Standard
⌊	**Be**	**9**	**-0.002**	ug/L	0.000	10	13	3	34	Standard
	C	**13**		ug/L			30481	30287	2	Standard
	Cl	**37**		ug/L			8086439	8158868	0	Standard
⌈>	**Sc**	**45**		ug/L			1349683	1320266	1	Standard
⌈	**V**	**51**	**-0.003**	ug/L	0.002	57	7438	7185	1	Standard
⌊	**V-1**	**51**	**0.024**	ug/L	0.001	5	90	730	5	Standard
⌈	**Cr**	**52**	**-0.007**	ug/L	0.011	151	21824	21176	0	Standard
⌊	**Cr**	**53**	**0.083**	ug/L	0.007	8	116	328	4	Standard
⌈	**Mn**	**55**	**0.120**	ug/L	0.006	4	1991	6223	1	Standard
⌈>	**Ge**	**72**		ug/L			89878	84676	1	KED
⌈	**Ni**	**60**	**0.003**	ug/L	0.004	120	14	18	31	KED
⌊	**Ni**	**62**	**-0.004**	ug/L	0.008	217	6	5	33	KED
⌈	**Cu**	**63**	**0.010**	ug/L	0.003	28	115	149	8	KED
⌊	**Cu**	**65**	**0.005**	ug/L	0.008	143	62	69	23	KED
⌈	**Zn**	**66**	**-0.029**	ug/L	0.027	92	209	180	7	KED
⌊	**Zn**	**67**	**0.055**	ug/L	0.122	221	35	38	29	KED
⌈	**As**	**75**	**-0.001**	ug/L	0.006	597	3	3	49	KED
⌊	**Se**	**78**	**-0.029**	ug/L	0.013	44	12	10	4	KED
	Y	**89**		ug/L			830650	805946	0	Standard
	Kr	**83**		ug/L			62	55	11	Standard
⌈>	**In-1**	**115**		ug/L			23226	22578	2	KED
⌈	**Cd**	**111**	**-0.002**	ug/L	0.003	186	3	2	33	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.000	23	2	3	7	KED
⌈>	**In**	**115**		ug/L			1635078	1597606	1	Standard
⌈	**Ag**	**107**	**-0.000**	ug/L	0.001	170	87	76	20	Standard
⌈	**Sb**	**121**	**0.015**	ug/L	0.002	11	387	725	6	Standard
⌊	**Sb**	**123**	**0.014**	ug/L	0.003	21	284	526	10	Standard
⌈	**Ba**	**135**	**-0.026**	ug/L	0.004	14	264	96	24	Standard
⌊	**Ba**	**137**	**-0.025**	ug/L	0.001	5	443	173	7	Standard
⌈>	**Tb**	**159**		ug/L			2771891	2714462	0	Standard
⌈	**Tl**	**205**	**-0.000**	ug/L	0.000	71	116	95	13	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	8	532	1120	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:49:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1059029	3	Standard
	Be	**9**	**49.871**	ug/L	1.172	2	13	264496	1	Standard
	C	**13**		ug/L			30481	30303	0	Standard
	Cl	**37**		ug/L			8086439	8362532	1	Standard
>	**Sc**	**45**		ug/L			1349683	1315396	0	Standard
	V	**51**	**48.207**	ug/L	0.604	1	7438	1320558	1	Standard
	V-1	**51**	**48.872**	ug/L	0.443	0	90	1328508	1	Standard
	Cr	**52**	**48.791**	ug/L	0.636	1	21824	1145563	1	Standard
	Cr	**53**	**51.031**	ug/L	0.568	1	116	131991	0	Standard
	Mn	**55**	**50.054**	ug/L	0.322	0	1991	1786909	0	Standard
>	**Ge**	**72**		ug/L			89878	83202	0	KED
	Ni	**60**	**51.516**	ug/L	0.354	0	14	69921	1	KED
	Ni	**62**	**50.846**	ug/L	0.588	1	6	11299	1	KED
	Cu	**63**	**51.935**	ug/L	0.249	0	115	205012	0	KED
	Cu	**65**	**51.933**	ug/L	0.201	0	62	103400	0	KED
	Zn	**66**	**51.247**	ug/L	0.417	0	209	29576	0	KED
	Zn	**67**	**50.898**	ug/L	0.338	0	35	4833	0	KED
	As	**75**	**50.758**	ug/L	0.085	0	3	13995	0	KED
	Se	**78**	**48.783**	ug/L	1.277	2	12	1508	2	KED
	Y	**89**		ug/L			830650	803744	1	Standard
	Kr	**83**		ug/L			62	59	17	Standard
>	**In-1**	**115**		ug/L			23226	22013	1	KED
	Cd	**111**	**52.428**	ug/L	0.286	0	3	15870	0	KED
	Cd	**114**	**52.463**	ug/L	0.502	0	2	41040	0	KED
>	**In**	**115**		ug/L			1635078	1572809	1	Standard
	Ag	**107**	**48.256**	ug/L	1.131	2	87	1054734	3	Standard
	Sb	**121**	**48.099**	ug/L	1.289	2	387	1118081	1	Standard
	Sb	**123**	**50.470**	ug/L	1.307	2	284	849545	1	Standard
	Ba	**135**	**47.826**	ug/L	0.734	1	264	295198	0	Standard
	Ba	**137**	**48.048**	ug/L	0.641	1	443	497044	0	Standard
>	**Tb**	**159**		ug/L			2771891	2754596	0	Standard
	Tl	**205**	**52.502**	ug/L	0.156	0	116	4632398	1	Standard
	Pb	**208**	**48.879**	ug/L	0.376	0	532	5821155	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:57:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1073340	1	Standard
	Be	**9**	**0.001**	ug/L	0.002	239	13	17	61	Standard
	C	**13**		ug/L			30481	30068	1	Standard
	Cl	**37**		ug/L			8086439	8132947	1	Standard
>	**Sc**	**45**		ug/L			1349683	1308984	0	Standard
	V	**51**	**-0.007**	ug/L	0.002	26	7438	7028	0	Standard
	V-1	**51**	**0.014**	ug/L	0.000	3	90	478	2	Standard
	Cr	**52**	**-0.012**	ug/L	0.006	55	21824	20900	1	Standard
	Cr	**53**	**0.060**	ug/L	0.008	12	116	267	7	Standard
	Mn	**55**	**-0.006**	ug/L	0.002	35	1991	1727	4	Standard
>	**Ge**	**72**		ug/L			89878	84638	1	KED
	Ni	**60**	**0.011**	ug/L	0.006	50	14	29	26	KED
	Ni	**62**	**0.005**	ug/L	0.000	8	6	7	0	KED
	Cu	**63**	**0.002**	ug/L	0.002	68	115	118	4	KED
	Cu	**65**	**-0.002**	ug/L	0.005	204	62	53	16	KED
	Zn	**66**	**-0.106**	ug/L	0.037	34	209	135	16	KED
	Zn	**67**	**-0.124**	ug/L	0.043	34	35	21	18	KED
	As	**75**	**0.003**	ug/L	0.004	120	3	4	22	KED
	Se	**78**	**0.098**	ug/L	0.013	13	12	14	3	KED
	Y	**89**		ug/L			830650	800614	0	Standard
	Kr	**83**		ug/L			62	51	32	Standard
>	**In-1**	**115**		ug/L			23226	22646	1	KED
	Cd	**111**	**-0.001**	ug/L	0.006	896	3	3	62	KED
	Cd	**114**	**0.006**	ug/L	0.002	36	2	7	24	KED
>	**In**	**115**		ug/L			1635078	1577480	0	Standard
	Ag	**107**	**0.001**	ug/L	0.000	19	87	111	4	Standard
	Sb	**121**	**0.032**	ug/L	0.001	4	387	1131	3	Standard
	Sb	**123**	**0.034**	ug/L	0.004	10	284	846	7	Standard
	Ba	**135**	**-0.025**	ug/L	0.004	15	264	99	24	Standard
	Ba	**137**	**-0.025**	ug/L	0.001	5	443	165	8	Standard
>	**Tb**	**159**		ug/L			2771891	2700719	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	7	116	238	3	Standard
	Pb	**208**	**0.006**	ug/L	0.000	4	532	1210	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 07:02:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1227797	3	Standard
	Be	**9**	**-0.001**	ug/L	0.000	37	13	9	20	Standard
	C	**13**		ug/L			30481	32632	2	Standard
	Cl	**37**		ug/L			8086439	8275203	0	Standard
>	**Sc**	**45**		ug/L			1349683	1493662	1	Standard
	V	**51**	**-0.008**	ug/L	0.003	45	7438	7993	1	Standard
	V-1	**51**	**0.009**	ug/L	0.000	3	90	381	2	Standard
	Cr	**52**	**-0.032**	ug/L	0.015	47	21824	23321	0	Standard
	Cr	**53**	**0.025**	ug/L	0.005	19	116	200	5	Standard
	Mn	**55**	**-0.001**	ug/L	0.001	84	1991	2151	0	Standard
>	**Ge**	**72**		ug/L			89878	86538	0	KED
	Ni	**60**	**0.016**	ug/L	0.031	194	14	36	120	KED
	Ni	**62**	**0.039**	ug/L	0.047	119	6	15	69	KED
	Cu	**63**	**0.013**	ug/L	0.034	265	115	164	85	KED
	Cu	**65**	**0.012**	ug/L	0.033	274	62	85	81	KED
	Zn	**66**	**-0.269**	ug/L	0.049	18	209	41	71	KED
	Zn	**67**	**-0.239**	ug/L	0.012	4	35	10	10	KED
	As	**75**	**0.013**	ug/L	0.025	188	3	7	95	KED
	Se	**78**	**0.003**	ug/L	0.109	3194	12	12	29	KED
	Y	**89**		ug/L			830650	899595	0	Standard
	Kr	**83**		ug/L			62	59	20	Standard
>	**In-1**	**115**		ug/L			23226	24084	1	KED
	Cd	**111**	**-0.002**	ug/L	0.006	238	3	2	66	KED
	Cd	**114**	**-0.000**	ug/L	0.001	810	2	2	46	KED
>	**In**	**115**		ug/L			1635078	1746233	0	Standard
	Ag	**107**	**0.000**	ug/L	0.000	172	87	98	8	Standard
	Sb	**121**	**0.009**	ug/L	0.002	17	387	639	6	Standard
	Sb	**123**	**0.009**	ug/L	0.001	16	284	466	5	Standard
	Ba	**135**	**-0.037**	ug/L	0.001	2	264	27	19	Standard
	Ba	**137**	**-0.037**	ug/L	0.001	2	443	48	21	Standard
>	**Tb**	**159**		ug/L			2771891	2932572	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	217	116	118	8	Standard
	Pb	**208**	**-0.001**	ug/L	0.000	21	532	399	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 07:07:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1084314	1227672	2	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	50	13	6	69	Standard
	C	**13**		ug/L			30481	32883	0	Standard
	Cl	**37**		ug/L			8086439	8280038	0	Standard
⌈>	**Sc**	**45**		ug/L			1349683	1475395	1	Standard
|	**V**	**51**	**-0.006**	ug/L	0.004	66	7438	7945	0	Standard
|	**V-1**	**51**	**0.008**	ug/L	0.001	8	90	334	6	Standard
|	**Cr**	**52**	**-0.017**	ug/L	0.013	75	21824	23424	0	Standard
|	**Cr**	**53**	**0.030**	ug/L	0.005	15	116	213	7	Standard
⌊	**Mn**	**55**	**-0.005**	ug/L	0.001	15	1991	1975	2	Standard
⌈>	**Ge**	**72**		ug/L			89878	87302	1	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	58	14	5	88	KED
|	**Ni**	**62**	**-0.010**	ug/L	0.012	121	6	4	65	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.002	38	115	88	9	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.008	138	62	48	31	KED
|	**Zn**	**66**	**-0.269**	ug/L	0.006	2	209	41	7	KED
|	**Zn**	**67**	**-0.298**	ug/L	0.044	14	35	5	86	KED
|	**As**	**75**	**-0.005**	ug/L	0.001	16	3	2	12	KED
⌊	**Se**	**78**	**-0.008**	ug/L	0.040	496	12	11	10	KED
	Y	**89**		ug/L			830650	894870	2	Standard
	Kr	**83**		ug/L			62	55	11	Standard
⌈>	**In-1**	**115**		ug/L			23226	23299	4	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.004	132	3	2	43	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	162	2	1	200	KED
⌈>	**In**	**115**		ug/L			1635078	1736155	1	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.000	39	87	76	7	Standard
|	**Sb**	**121**	**-0.004**	ug/L	0.001	26	387	307	7	Standard
|	**Sb**	**123**	**-0.004**	ug/L	0.001	26	284	231	6	Standard
|	**Ba**	**135**	**-0.036**	ug/L	0.001	3	264	33	26	Standard
⌊	**Ba**	**137**	**-0.037**	ug/L	0.001	2	443	53	22	Standard
⌈>	**Tb**	**159**		ug/L			2771891	2950338	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	29	116	70	24	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	18	532	366	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 07:12:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1244968	2	Standard
	Be	**9**	**-0.002**	ug/L	0.000	19	13	5	33	Standard
	C	**13**		ug/L			30481	32579	0	Standard
	Cl	**37**		ug/L			8086439	8170094	1	Standard
>	**Sc**	**45**		ug/L			1349683	1513523	1	Standard
	V	**51**	**-0.013**	ug/L	0.001	4	7438	7918	1	Standard
	V-1	**51**	**0.007**	ug/L	0.000	4	90	305	1	Standard
	Cr	**52**	**-0.040**	ug/L	0.003	6	21824	23425	1	Standard
	Cr	**53**	**0.028**	ug/L	0.006	20	116	212	6	Standard
	Mn	**55**	**-0.008**	ug/L	0.001	7	1991	1903	2	Standard
>	**Ge**	**72**		ug/L			89878	86763	1	KED
	Ni	**60**	**-0.003**	ug/L	0.005	142	14	9	69	KED
	Ni	**62**	**-0.018**	ug/L	0.005	27	6	2	43	KED
	Cu	**63**	**-0.007**	ug/L	0.002	32	115	81	10	KED
	Cu	**65**	**-0.008**	ug/L	0.001	18	62	43	6	KED
	Zn	**66**	**-0.284**	ug/L	0.005	1	209	32	10	KED
	Zn	**67**	**-0.258**	ug/L	0.030	11	35	8	32	KED
	As	**75**	**-0.002**	ug/L	0.004	162	3	3	36	KED
	Se	**78**	**-0.042**	ug/L	0.030	71	12	10	9	KED
	Y	**89**		ug/L			830650	902210	2	Standard
	Kr	**83**		ug/L			62	53	14	Standard
>	**In-1**	**115**		ug/L			23226	24250	1	KED
	Cd	**111**	**-0.006**	ug/L	0.002	25	3	1	34	KED
	Cd	**114**	**-0.002**	ug/L	0.002	145	2	1	197	KED
>	**In**	**115**		ug/L			1635078	1732550	1	Standard
	Ag	**107**	**-0.001**	ug/L	0.001	146	87	77	28	Standard
	Sb	**121**	**-0.008**	ug/L	0.001	10	387	206	12	Standard
	Sb	**123**	**-0.008**	ug/L	0.001	15	284	160	14	Standard
	Ba	**135**	**-0.037**	ug/L	0.001	2	264	27	17	Standard
	Ba	**137**	**-0.038**	ug/L	0.000	0	443	37	10	Standard
>	**Tb**	**159**		ug/L			2771891	2942165	1	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	17	116	61	18	Standard
	Pb	**208**	**-0.002**	ug/L	0.000	5	532	372	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 07:17:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1084314	1055613	1	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.000	38	13	7	25	Standard
	C	**13**		ug/L			30481	30542	0	Standard
	Cl	**37**		ug/L			8086439	7796342	0	Standard
⌈>	**Sc**	**45**		ug/L			1349683	1257311	0	Standard
⌈	**V**	**51**	**0.002**	ug/L	0.002	99	7438	6983	1	Standard
⌈	**V-1**	**51**	**0.009**	ug/L	0.001	11	90	322	7	Standard
⌈	**Cr**	**52**	**0.006**	ug/L	0.009	152	21824	20466	1	Standard
⌈	**Cr**	**53**	**0.030**	ug/L	0.001	4	116	182	1	Standard
⌊	**Mn**	**55**	**-0.033**	ug/L	0.001	2	1991	722	4	Standard
⌈>	**Ge**	**72**		ug/L			89878	82282	1	KED
⌈	**Ni**	**60**	**-0.001**	ug/L	0.004	262	14	11	44	KED
⌈	**Ni**	**62**	**-0.009**	ug/L	0.005	56	6	4	24	KED
⌈	**Cu**	**63**	**-0.006**	ug/L	0.004	67	115	83	17	KED
⌈	**Cu**	**65**	**-0.008**	ug/L	0.004	42	62	40	16	KED
⌈	**Zn**	**66**	**-0.222**	ug/L	0.030	13	209	66	26	KED
⌈	**Zn**	**67**	**-0.294**	ug/L	0.044	14	35	5	78	KED
⌈	**As**	**75**	**-0.003**	ug/L	0.001	29	3	2	10	KED
⌊	**Se**	**78**	**-0.003**	ug/L	0.075	2232	12	11	19	KED
	Y	**89**		ug/L			830650	763661	1	Standard
	Kr	**83**		ug/L			62	48	12	Standard
⌈>	**In-1**	**115**		ug/L			23226	21428	0	KED
⌈	**Cd**	**111**	**-0.004**	ug/L	0.007	146	3	1	100	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	469	2	1	105	KED
⌈>	**In**	**115**		ug/L			1635078	1534631	1	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	66	87	55	30	Standard
⌈	**Sb**	**121**	**-0.013**	ug/L	0.000	3	387	77	12	Standard
⌈	**Sb**	**123**	**-0.012**	ug/L	0.001	5	284	68	18	Standard
⌈	**Ba**	**135**	**-0.036**	ug/L	0.001	3	264	31	24	Standard
⌊	**Ba**	**137**	**-0.036**	ug/L	0.002	5	443	49	43	Standard
⌈>	**Tb**	**159**		ug/L			2771891	2627691	0	Standard
⌈	**Tl**	**205**	**0.001**	ug/L	0.000	25	116	234	13	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	25	532	394	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 07:22:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1046666	1	Standard
	Be	**9**	**-0.001**	ug/L	0.001	239	13	10	60	Standard
	C	**13**		ug/L			30481	30756	1	Standard
	Cl	**37**		ug/L			8086439	7784248	0	Standard
>	**Sc**	**45**		ug/L			1349683	1255943	1	Standard
	V	**51**	**0.001**	ug/L	0.003	300	7438	6947	1	Standard
	V-1	**51**	**0.008**	ug/L	0.001	10	90	294	7	Standard
	Cr	**52**	**0.007**	ug/L	0.010	140	21824	20460	1	Standard
	Cr	**53**	**0.031**	ug/L	0.004	12	116	184	5	Standard
	Mn	**55**	**-0.035**	ug/L	0.001	1	1991	650	1	Standard
>	**Ge**	**72**		ug/L			89878	82994	0	KED
	Ni	**60**	**0.001**	ug/L	0.003	192	14	15	21	KED
	Ni	**62**	**-0.006**	ug/L	0.013	217	6	5	57	KED
	Cu	**63**	**-0.005**	ug/L	0.003	66	115	86	15	KED
	Cu	**65**	**-0.011**	ug/L	0.003	28	62	34	17	KED
	Zn	**66**	**-0.213**	ug/L	0.009	4	209	71	8	KED
	Zn	**67**	**-0.167**	ug/L	0.021	12	35	17	11	KED
	As	**75**	**-0.001**	ug/L	0.009	1269	3	3	71	KED
	Se	**78**	**0.030**	ug/L	0.110	370	12	12	26	KED
	Y	**89**		ug/L			830650	759922	0	Standard
	Kr	**83**		ug/L			62	55	19	Standard
>	**In-1**	**115**		ug/L			23226	21389	1	KED
	Cd	**111**	**-0.003**	ug/L	0.007	193	3	2	89	KED
	Cd	**114**	**0.002**	ug/L	0.002	124	2	3	51	KED
>	**In**	**115**		ug/L			1635078	1533601	1	Standard
	Ag	**107**	**-0.001**	ug/L	0.001	53	87	58	22	Standard
	Sb	**121**	**-0.013**	ug/L	0.001	6	387	69	27	Standard
	Sb	**123**	**-0.012**	ug/L	0.001	7	284	76	18	Standard
	Ba	**135**	**-0.036**	ug/L	0.002	4	264	32	32	Standard
	Ba	**137**	**-0.036**	ug/L	0.001	2	443	56	15	Standard
>	**Tb**	**159**		ug/L			2771891	2632882	0	Standard
	Tl	**205**	**0.000**	ug/L	0.000	38	116	139	7	Standard
	Pb	**208**	**-0.002**	ug/L	0.000	8	532	311	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 07:27:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1084314	1044425	1	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	236	13	10	65	Standard
	C	**13**		ug/L			30481	30335	1	Standard
	Cl	**37**		ug/L			8086439	7771552	0	Standard
⌈>	**Sc**	**45**		ug/L			1349683	1249532	2	Standard
⌊	**V**	**51**	**0.001**	ug/L	0.002	215	7438	6914	2	Standard
⌊	**V-1**	**51**	**0.007**	ug/L	0.001	9	90	276	6	Standard
⌊	**Cr**	**52**	**0.003**	ug/L	0.009	345	21824	20263	2	Standard
⌊	**Cr**	**53**	**0.024**	ug/L	0.004	17	116	166	6	Standard
⌊	**Mn**	**55**	**-0.022**	ug/L	0.025	112	1991	1115	77	Standard
⌈>	**Ge**	**72**		ug/L			89878	82106	0	KED
⌊	**Ni**	**60**	**-0.002**	ug/L	0.004	148	14	10	47	KED
⌊	**Ni**	**62**	**-0.009**	ug/L	0.020	222	6	4	98	KED
⌊	**Cu**	**63**	**-0.006**	ug/L	0.004	71	115	81	21	KED
⌊	**Cu**	**65**	**-0.007**	ug/L	0.005	77	62	43	23	KED
⌊	**Zn**	**66**	**-0.208**	ug/L	0.007	3	209	73	5	KED
⌊	**Zn**	**67**	**-0.198**	ug/L	0.087	43	35	13	56	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.005	158	3	2	57	KED
⌊	**Se**	**78**	**0.061**	ug/L	0.054	88	12	13	12	KED
	Y	**89**		ug/L			830650	752358	4	Standard
	Kr	**83**		ug/L			62	62	21	Standard
⌈>	**In-1**	**115**		ug/L			23226	21201	1	KED
⌊	**Cd**	**111**	**-0.003**	ug/L	0.008	245	3	2	107	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	440	2	1	103	KED
⌈>	**In**	**115**		ug/L			1635078	1500461	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.002	1017	87	77	43	Standard
⌊	**Sb**	**121**	**-0.012**	ug/L	0.001	11	387	80	41	Standard
⌊	**Sb**	**123**	**-0.012**	ug/L	0.001	11	284	67	35	Standard
⌊	**Ba**	**135**	**-0.034**	ug/L	0.002	4	264	39	24	Standard
⌊	**Ba**	**137**	**-0.036**	ug/L	0.001	4	443	48	31	Standard
⌈>	**Tb**	**159**		ug/L			2771891	2611790	0	Standard
⌊	**Tl**	**205**	**0.001**	ug/L	0.000	28	116	161	8	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	22	532	349	9	Standard

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS1
Calibration: FF00009
Control Limt: +/- 10.00%
Sequence: SKF0017

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKF0017-ICV1	Chromium-52	50.000	48.3	96.7	ug/L	EPA 6020B
	Chromium-53	50.000	50.3	101	ug/L	EPA 6020B
	Lead-208	50.000	50.5	101	ug/L	EPA 6020B
SKF0017-CCV1	Chromium-52	50.000	47.5	95.1	ug/L	EPA 6020B
	Chromium-53	50.000	49.8	99.6	ug/L	EPA 6020B
	Lead-208	50.000	50.1	100	ug/L	EPA 6020B
SKF0017-CCV2	Chromium-52	50.000	47.7	95.4	ug/L	EPA 6020B
	Chromium-53	50.000	49.9	99.7	ug/L	EPA 6020B
	Lead-208	50.000	48.9	97.7	ug/L	EPA 6020B
SKF0017-CCV3	Chromium-52	50.000	47.5	95.0	ug/L	EPA 6020B
	Chromium-53	50.000	49.5	99.0	ug/L	EPA 6020B
	Lead-208	50.000	49.3	98.6	ug/L	EPA 6020B
SKF0017-CCV4	Chromium-52	50.000	46.8	93.7	ug/L	EPA 6020B
	Chromium-53	50.000	48.9	97.8	ug/L	EPA 6020B
	Lead-208	50.000	48.7	97.5	ug/L	EPA 6020B
SKF0017-CCV5	Chromium-52	50.000	47.0	93.9	ug/L	EPA 6020B
	Chromium-53	50.000	48.8	97.6	ug/L	EPA 6020B
	Lead-208	50.000	48.3	96.7	ug/L	EPA 6020B
SKF0017-CCV6	Chromium-52	50.000	47.4	94.8	ug/L	EPA 6020B
	Chromium-53	50.000	49.5	99.1	ug/L	EPA 6020B
	Lead-208	50.000	48.9	97.8	ug/L	EPA 6020B
SKF0017-CCV7	Chromium-52	50.000	47.5	95.0	ug/L	EPA 6020B
	Chromium-53	50.000	49.6	99.1	ug/L	EPA 6020B
	Lead-208	50.000	49.3	98.5	ug/L	EPA 6020B
SKF0017-CCV8	Chromium-52	50.000	48.6	97.2	ug/L	EPA 6020B
	Chromium-53	50.000	50.3	101	ug/L	EPA 6020B
	Lead-208	50.000	48.8	97.6	ug/L	EPA 6020B
SKF0017-CCV9	Chromium-52	50.000	47.4	94.8	ug/L	EPA 6020B
	Chromium-53	50.000	49.8	99.6	ug/L	EPA 6020B
	Lead-208	50.000	49.3	98.6	ug/L	EPA 6020B
SKF0017-CCVA	Chromium-52	50.000	48.3	96.6	ug/L	EPA 6020B
	Chromium-53	50.000	50.3	101	ug/L	EPA 6020B
	Lead-208	50.000	49.9	99.9	ug/L	EPA 6020B
SKF0017-CCVB	Chromium-52	50.000	48.6	97.2	ug/L	EPA 6020B

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS1
Calibration: FF00009
Control Limt: +/- 10.00%
Sequence: SKF0017

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKF0017-CCVB	Chromium-53	50.000	50.8	102	ug/L	EPA 6020B
	Lead-208	50.000	49.1	98.1	ug/L	EPA 6020B
SKF0017-CCVC	Chromium-52	50.000	49.3	98.6	ug/L	EPA 6020B
	Chromium-53	50.000	51.7	103	ug/L	EPA 6020B
	Lead-208	50.000	48.4	96.8	ug/L	EPA 6020B
SKF0017-CCVD	Chromium-52	50.000	49.6	99.2	ug/L	EPA 6020B
	Chromium-53	50.000	52.1	104	ug/L	EPA 6020B
	Lead-208	50.000	48.5	97.0	ug/L	EPA 6020B
SKF0017-CCVE	Chromium-52	50.000	49.7	99.3	ug/L	EPA 6020B
	Chromium-53	50.000	52.3	105	ug/L	EPA 6020B
	Lead-208	50.000	48.8	97.5	ug/L	EPA 6020B
SKF0017-CCVF	Chromium-52	50.000	48.7	97.5	ug/L	EPA 6020B
	Chromium-53	50.000	50.6	101	ug/L	EPA 6020B
	Lead-208	50.000	48.5	97.1	ug/L	EPA 6020B
SKF0017-CCVG	Chromium-52	50.000	48.8	97.6	ug/L	EPA 6020B
	Chromium-53	50.000	51.0	102	ug/L	EPA 6020B
	Lead-208	50.000	48.9	97.8	ug/L	EPA 6020B

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: HydroGeoLogic, Inc.
Instrument ID: ICPMS1
Sequence: SKF0017

SDG: 22E0328
Project: Portland Harbor Superfund Site 2021-2
Calibration: FF00009
Date Analyzed: 06/01/22 14:59

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0017-IBL1	Chromium-52	-0.00200	0.26	0.500	ug/L	
SKF0017-IBL1	Chromium-53	0.00100	0.239	0.500	ug/L	
SKF0017-IBL1	Lead-208	0.00400	0.0513	0.100	ug/L	
SKF0017-ICB1	Chromium-52	-0.00700	0.26	0.500	ug/L	
SKF0017-ICB1	Chromium-53	0.00500	0.239	0.500	ug/L	
SKF0017-ICB1	Lead-208	0.00200	0.0513	0.100	ug/L	
SKF0017-CCB1	Chromium-52	-0.0160	0.26	0.500	ug/L	
SKF0017-CCB1	Chromium-53	-0.00200	0.239	0.500	ug/L	
SKF0017-CCB1	Lead-208	0.00200	0.0513	0.100	ug/L	
SKF0017-IBL2	Chromium-52	0.00300	0.26	0.500	ug/L	
SKF0017-IBL2	Chromium-53	0.149	0.239	0.500	ug/L	
SKF0017-IBL2	Lead-208	0.0130	0.0513	0.100	ug/L	
SKF0017-IBL3	Chromium-52	0.0140	0.26	0.500	ug/L	
SKF0017-IBL3	Chromium-53	0.0890	0.239	0.500	ug/L	
SKF0017-IBL3	Lead-208	0.00600	0.0513	0.100	ug/L	
SKF0017-CCB2	Chromium-52	-0.00500	0.26	0.500	ug/L	
SKF0017-CCB2	Chromium-53	0.0520	0.239	0.500	ug/L	
SKF0017-CCB2	Lead-208	0.00200	0.0513	0.100	ug/L	
SKF0017-CCB3	Chromium-52	-0.0340	0.26	0.500	ug/L	
SKF0017-CCB3	Chromium-53	0.0400	0.239	0.500	ug/L	
SKF0017-CCB3	Lead-208	0.00400	0.0513	0.100	ug/L	
SKF0017-IBL4	Chromium-52	-0.0630	0.26	0.500	ug/L	
SKF0017-IBL4	Chromium-53	0.0100	0.239	0.500	ug/L	
SKF0017-IBL4	Lead-208	0.00200	0.0513	0.100	ug/L	
SKF0017-IBL5	Chromium-52	-0.0830	0.26	0.500	ug/L	
SKF0017-IBL5	Chromium-53	0.0100	0.239	0.500	ug/L	
SKF0017-IBL5	Lead-208	0.00200	0.0513	0.100	ug/L	
SKF0017-CCB4	Chromium-52	-0.0350	0.26	0.500	ug/L	
SKF0017-CCB4	Chromium-53	0.00300	0.239	0.500	ug/L	
SKF0017-CCB4	Lead-208	0.00100	0.0513	0.100	ug/L	
SKF0017-IBL6	Chromium-52	-0.0300	0.26	0.500	ug/L	
SKF0017-IBL6	Chromium-53	0.00200	0.239	0.500	ug/L	
SKF0017-IBL6	Lead-208	0.00	0.0513	0.100	ug/L	
SKF0017-CCB5	Chromium-52	0.0120	0.26	0.500	ug/L	
SKF0017-CCB5	Chromium-53	-0.00600	0.239	0.500	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: HydroGeoLogic, Inc.
Instrument ID: ICPMS1
Sequence: SKF0017

SDG: 22E0328
Project: Portland Harbor Superfund Site 2021-2
Calibration: FF00009
Date Analyzed: 06/01/22 20:09

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0017-CCB5	Lead-208	0.00100	0.0513	0.100	ug/L	
SKF0017-CCB6	Chromium-52	0.0210	0.26	0.500	ug/L	
SKF0017-CCB6	Chromium-53	-0.00200	0.239	0.500	ug/L	
SKF0017-CCB6	Lead-208	0.00100	0.0513	0.100	ug/L	
SKF0017-IBL7	Chromium-52	-0.0210	0.26	0.500	ug/L	
SKF0017-IBL7	Chromium-53	0.00300	0.239	0.500	ug/L	
SKF0017-IBL7	Lead-208	0.00600	0.0513	0.100	ug/L	
SKF0017-CCB7	Chromium-52	0.0360	0.26	0.500	ug/L	
SKF0017-CCB7	Chromium-53	0.00300	0.239	0.500	ug/L	
SKF0017-CCB7	Lead-208	0.00200	0.0513	0.100	ug/L	
SKF0017-IBL8	Chromium-52	0.0330	0.26	0.500	ug/L	
SKF0017-IBL8	Chromium-53	0.0650	0.239	0.500	ug/L	
SKF0017-IBL8	Lead-208	0.0510	0.0513	0.100	ug/L	
SKF0017-CCB8	Chromium-52	0.0340	0.26	0.500	ug/L	
SKF0017-CCB8	Chromium-53	-0.00300	0.239	0.500	ug/L	
SKF0017-CCB8	Lead-208	0.00300	0.0513	0.100	ug/L	
SKF0017-IBL9	Chromium-52	-0.00800	0.26	0.500	ug/L	
SKF0017-IBL9	Chromium-53	0.00	0.239	0.500	ug/L	
SKF0017-IBL9	Lead-208	0.00600	0.0513	0.100	ug/L	
SKF0017-CCB9	Chromium-52	0.0160	0.26	0.500	ug/L	
SKF0017-CCB9	Chromium-53	0.00	0.239	0.500	ug/L	
SKF0017-CCB9	Lead-208	0.00200	0.0513	0.100	ug/L	
SKF0017-IBLA	Chromium-52	0.00500	0.26	0.500	ug/L	
SKF0017-IBLA	Chromium-53	-0.00100	0.239	0.500	ug/L	
SKF0017-IBLA	Lead-208	0.00800	0.0513	0.100	ug/L	
SKF0017-CCBA	Chromium-52	0.0450	0.26	0.500	ug/L	
SKF0017-CCBA	Chromium-53	-0.00400	0.239	0.500	ug/L	
SKF0017-CCBA	Lead-208	0.00300	0.0513	0.100	ug/L	
SKF0017-CCBB	Chromium-52	0.0710	0.26	0.500	ug/L	
SKF0017-CCBB	Chromium-53	-0.00500	0.239	0.500	ug/L	
SKF0017-CCBB	Lead-208	0.00300	0.0513	0.100	ug/L	
SKF0017-IBLB	Chromium-52	0.00700	0.26	0.500	ug/L	
SKF0017-IBLB	Chromium-53	0.00100	0.239	0.500	ug/L	
SKF0017-IBLB	Lead-208	0.00600	0.0513	0.100	ug/L	
SKF0017-CCBC	Chromium-52	0.0670	0.26	0.500	ug/L	
SKF0017-CCBC	Chromium-53	-0.00800	0.239	0.500	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: HydroGeoLogic, Inc.
Instrument ID: ICPMS1
Sequence: SKF0017

SDG: 22E0328
Project: Portland Harbor Superfund Site 2021-2
Calibration: FF00009
Date Analyzed: 06/02/22 03:13

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0017-CCBC	Lead-208	0.00200	0.0513	0.100	ug/L	
SKF0017-CCBD	Chromium-52	0.00400	0.26	0.500	ug/L	
SKF0017-CCBD	Chromium-53	0.00200	0.239	0.500	ug/L	
SKF0017-CCBD	Lead-208	0.00100	0.0513	0.100	ug/L	
SKF0017-IBLC	Chromium-52	0.0570	0.26	0.500	ug/L	
SKF0017-IBLC	Chromium-53	0.0120	0.239	0.500	ug/L	
SKF0017-IBLC	Lead-208	0.00400	0.0513	0.100	ug/L	
SKF0017-CCBE	Chromium-52	0.0260	0.26	0.500	ug/L	
SKF0017-CCBE	Chromium-53	0.0160	0.239	0.500	ug/L	
SKF0017-CCBE	Lead-208	0.00400	0.0513	0.100	ug/L	
SKF0017-IBLD	Chromium-52	0.0490	0.26	0.500	ug/L	
SKF0017-IBLD	Chromium-53	0.00500	0.239	0.500	ug/L	
SKF0017-IBLD	Lead-208	0.00400	0.0513	0.100	ug/L	
SKF0017-IBLE	Chromium-52	-0.0130	0.26	0.500	ug/L	
SKF0017-IBLE	Chromium-53	0.0210	0.239	0.500	ug/L	
SKF0017-IBLE	Lead-208	0.00400	0.0513	0.100	ug/L	
SKF0017-CCBF	Chromium-52	-0.0300	0.26	0.500	ug/L	
SKF0017-CCBF	Chromium-53	0.0250	0.239	0.500	ug/L	
SKF0017-CCBF	Lead-208	0.00400	0.0513	0.100	ug/L	
SKF0017-IBLF	Chromium-52	-0.00900	0.26	0.500	ug/L	
SKF0017-IBLF	Chromium-53	0.0470	0.239	0.500	ug/L	
SKF0017-IBLF	Lead-208	0.00500	0.0513	0.100	ug/L	
SKF0017-IBLG	Chromium-52	-0.00700	0.26	0.500	ug/L	
SKF0017-IBLG	Chromium-53	0.0830	0.239	0.500	ug/L	
SKF0017-IBLG	Lead-208	0.00500	0.0513	0.100	ug/L	
SKF0017-CCBG	Chromium-52	-0.0120	0.26	0.500	ug/L	
SKF0017-CCBG	Chromium-53	0.0600	0.239	0.500	ug/L	
SKF0017-CCBG	Lead-208	0.00600	0.0513	0.100	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SKF0017-CAL1	XDT_m1220601-006	NA	06/01/22 14:24
CAL 1 - LOW CHECK	SKF0017-CAL2	XDT_m1220601-007	NA	06/01/22 14:29
CAL 2	SKF0017-CAL3	XDT_m1220601-008	NA	06/01/22 14:34
CAL 3	SKF0017-CAL4	XDT_m1220601-009	NA	06/01/22 14:39
CAL 4	SKF0017-CAL5	XDT_m1220601-010	NA	06/01/22 14:44
CAL 5	SKF0017-CAL6	XDT_m1220601-011	NA	06/01/22 14:51
RINSE	SKF0017-IBL1	XDT_m1220601-012	NA	06/01/22 14:59
Initial Cal Check	SKF0017-ICV1	XDT_m1220601-014	NA	06/01/22 15:06
Initial Cal Blank	SKF0017-ICB1	XDT_m1220601-015	NA	06/01/22 15:13
Calibration Check	SKF0017-CCV1	XDT_m1220601-016	NA	06/01/22 15:18
Calibration Blank	SKF0017-CCB1	XDT_m1220601-017	NA	06/01/22 15:26
Instrument RL Check	SKF0017-CRL1	XDT_m1220601-019	NA	06/01/22 15:40
Interference Check A	SKF0017-IFA1	XDT_m1220601-020	NA	06/01/22 15:45
Interference Check B	SKF0017-IFB1	XDT_m1220601-021	NA	06/01/22 15:50
LR200	SKF0017-HCV1	XDT_m1220601-022	NA	06/01/22 15:55
LR300	SKF0017-HCV2	XDT_m1220601-023	NA	06/01/22 16:00
Instrument Blank	SKF0017-IBL2	XDT_m1220601-024	NA	06/01/22 16:08
Instrument Blank	SKF0017-IBL3	XDT_m1220601-025	NA	06/01/22 16:19
Calibration Check	SKF0017-CCV2	XDT_m1220601-026	NA	06/01/22 16:25
Calibration Blank	SKF0017-CCB2	XDT_m1220601-027	NA	06/01/22 16:33
Blank	BKF0020-BLK1	XDT_m1220601-028	Water	06/01/22 16:44
LCS	BKF0020-BS1	XDT_m1220601-029	Water	06/01/22 16:49
ZZZZZ	22E0430-01	XDT_m1220601_PRE-030	Water	06/01/22 16:58
ZZZZZ	22E0430-01	XDT_m1220601_PRE-030	Water	06/01/22 16:58
Calibration Check	SKF0017-CCV3	XDT_m1220601-038	NA	06/01/22 17:40
Calibration Blank	SKF0017-CCB3	XDT_m1220601-039	NA	06/01/22 17:48
Instrument Blank	SKF0017-IBL4	XDT_m1220601-048	NA	06/01/22 18:45
Instrument Blank	SKF0017-IBL5	XDT_m1220601-049	NA	06/01/22 18:50
Calibration Check	SKF0017-CCV4	XDT_m1220601-050	NA	06/01/22 18:55

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SKF0017-CCB4	XDT_m1220601-051	NA	06/01/22 19:03
ZZZZZ	22E0237-01	XDT_m1220601-053	Solid	06/01/22 19:16
ZZZZZ	22E0237-01	XDT_m1220601-053	Solid	06/01/22 19:16
ZZZZZ	22E0237-02	XDT_m1220601-054	Solid	06/01/22 19:21
ZZZZZ	22E0237-02	XDT_m1220601-054	Solid	06/01/22 19:21
ZZZZZ	22E0237-03	XDT_m1220601-055	Solid	06/01/22 19:26
ZZZZZ	22E0237-03	XDT_m1220601-055	Solid	06/01/22 19:26
ZZZZZ	22E0237-04	XDT_m1220601-056	Solid	06/01/22 19:31
ZZZZZ	22E0237-04	XDT_m1220601-056	Solid	06/01/22 19:31
ZZZZZ	22E0237-05	XDT_m1220601-057	Solid	06/01/22 19:36
ZZZZZ	22E0237-05	XDT_m1220601-057	Solid	06/01/22 19:36
ZZZZZ	22E0237-06	XDT_m1220601-058	Solid	06/01/22 19:41
ZZZZZ	22E0237-06	XDT_m1220601-058	Solid	06/01/22 19:41
ZZZZZ	22E0237-07	XDT_m1220601-059	Solid	06/01/22 19:46
ZZZZZ	22E0237-07	XDT_m1220601-059	Solid	06/01/22 19:46
ZZZZZ	22E0237-09	XDT_m1220601-060	Solid	06/01/22 19:51
ZZZZZ	22E0237-09	XDT_m1220601-060	Solid	06/01/22 19:51
Instrument Blank	SKF0017-IBL6	XDT_m1220601-061	NA	06/01/22 19:56
Calibration Check	SKF0017-CCV5	XDT_m1220601-062	NA	06/01/22 20:01
Calibration Blank	SKF0017-CCB5	XDT_m1220601-063	NA	06/01/22 20:09
Calibration Check	SKF0017-CCV6	XDT_m1220601-065	NA	06/01/22 20:28
Calibration Blank	SKF0017-CCB6	XDT_m1220601-066	NA	06/01/22 20:35
ZZZZZ	BKE0677-BLK1	XDT_m1220601-067	Solid	06/01/22 20:42
ZZZZZ	BKE0677-BS1	XDT_m1220601-068	Solid	06/01/22 20:47
ZZZZZ	22E0245-01	XDT_m1220601-069	Solid	06/01/22 20:52
ZZZZZ	22E0245-01	XDT_m1220601-069	Solid	06/01/22 20:52
ZZZZZ	22E0245-01	XDT_m1220601-069	Solid	06/01/22 20:52
ZZZZZ	22E0245-01	XDT_m1220601-069	Solid	06/01/22 20:52
ZZZZZ	22E0245-01	XDT_m1220601-069	Solid	06/01/22 20:52

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22E0245-01	XDT_m1220601-069	Solid	06/01/22 20:52
ZZZZZ	22E0245-02	XDT_m1220601-070	Solid	06/01/22 20:58
ZZZZZ	22E0245-02	XDT_m1220601-070	Solid	06/01/22 20:58
ZZZZZ	22E0245-02	XDT_m1220601-070	Solid	06/01/22 20:58
ZZZZZ	22E0245-02	XDT_m1220601-070	Solid	06/01/22 20:58
ZZZZZ	22E0245-02	XDT_m1220601-070	Solid	06/01/22 20:58
ZZZZZ	22E0245-02	XDT_m1220601-070	Solid	06/01/22 20:58
ZZZZZ	22E0245-04	XDT_m1220601-071	Solid	06/01/22 21:05
ZZZZZ	22E0245-04	XDT_m1220601-071	Solid	06/01/22 21:05
ZZZZZ	22E0245-04	XDT_m1220601-071	Solid	06/01/22 21:05
ZZZZZ	22E0245-04	XDT_m1220601-071	Solid	06/01/22 21:05
ZZZZZ	22E0245-04	XDT_m1220601-071	Solid	06/01/22 21:05
ZZZZZ	22E0245-04	XDT_m1220601-071	Solid	06/01/22 21:05
ZZZZZ	22E0245-05	XDT_m1220601-072	Solid	06/01/22 21:10
ZZZZZ	22E0245-05	XDT_m1220601-072	Solid	06/01/22 21:10
ZZZZZ	22E0245-05	XDT_m1220601-072	Solid	06/01/22 21:10
ZZZZZ	22E0245-05	XDT_m1220601-072	Solid	06/01/22 21:10
ZZZZZ	22E0245-05	XDT_m1220601-072	Solid	06/01/22 21:10
ZZZZZ	22E0245-05	XDT_m1220601-072	Solid	06/01/22 21:10
ZZZZZ	22E0245-06	XDT_m1220601-073	Solid	06/01/22 21:15
ZZZZZ	22E0245-06	XDT_m1220601-073	Solid	06/01/22 21:15
ZZZZZ	22E0245-06	XDT_m1220601-073	Solid	06/01/22 21:15
ZZZZZ	22E0245-06	XDT_m1220601-073	Solid	06/01/22 21:15
ZZZZZ	22E0245-06	XDT_m1220601-073	Solid	06/01/22 21:15
ZZZZZ	22E0245-06	XDT_m1220601-073	Solid	06/01/22 21:15
ZZZZZ	22E0245-07	XDT_m1220601-074	Solid	06/01/22 21:20
ZZZZZ	22E0245-07	XDT_m1220601-074	Solid	06/01/22 21:20
ZZZZZ	22E0245-07	XDT_m1220601-074	Solid	06/01/22 21:20
ZZZZZ	22E0245-07	XDT_m1220601-074	Solid	06/01/22 21:20

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22E0245-07	XDT_m1220601-074	Solid	06/01/22 21:20
ZZZZZ	22E0245-07	XDT_m1220601-074	Solid	06/01/22 21:20
ZZZZZ	22E0245-08	XDT_m1220601-075	Solid	06/01/22 21:25
ZZZZZ	22E0245-08	XDT_m1220601-075	Solid	06/01/22 21:25
ZZZZZ	22E0245-08	XDT_m1220601-075	Solid	06/01/22 21:25
ZZZZZ	22E0245-08	XDT_m1220601-075	Solid	06/01/22 21:25
ZZZZZ	22E0245-08	XDT_m1220601-075	Solid	06/01/22 21:25
ZZZZZ	22E0245-08	XDT_m1220601-075	Solid	06/01/22 21:25
Instrument Blank	SKF0017-IBL7	XDT_m1220601-076	NA	06/01/22 21:32
Calibration Check	SKF0017-CCV7	XDT_m1220601-077	NA	06/01/22 21:37
Calibration Blank	SKF0017-CCB7	XDT_m1220601-078	NA	06/01/22 21:44
ZZZZZ	22E0245-09	XDT_m1220601-079	Solid	06/01/22 21:49
ZZZZZ	22E0245-09	XDT_m1220601-079	Solid	06/01/22 21:49
ZZZZZ	22E0245-09	XDT_m1220601-079	Solid	06/01/22 21:49
ZZZZZ	22E0245-09	XDT_m1220601-079	Solid	06/01/22 21:49
ZZZZZ	22E0245-09	XDT_m1220601-079	Solid	06/01/22 21:49
ZZZZZ	22E0245-09	XDT_m1220601-079	Solid	06/01/22 21:49
ZZZZZ	22E0245-10	XDT_m1220601-080	Solid	06/01/22 21:54
ZZZZZ	22E0245-10	XDT_m1220601-080	Solid	06/01/22 21:54
ZZZZZ	22E0245-10	XDT_m1220601-080	Solid	06/01/22 21:54
ZZZZZ	22E0245-10	XDT_m1220601-080	Solid	06/01/22 21:54
ZZZZZ	22E0245-10	XDT_m1220601-080	Solid	06/01/22 21:54
ZZZZZ	22E0245-10	XDT_m1220601-080	Solid	06/01/22 21:54
ZZZZZ	22E0245-11	XDT_m1220601-081	Solid	06/01/22 21:59
ZZZZZ	22E0245-11	XDT_m1220601-081	Solid	06/01/22 21:59
ZZZZZ	22E0245-11	XDT_m1220601-081	Solid	06/01/22 21:59
ZZZZZ	22E0245-11	XDT_m1220601-081	Solid	06/01/22 21:59
ZZZZZ	22E0245-11	XDT_m1220601-081	Solid	06/01/22 21:59
ZZZZZ	22E0245-11	XDT_m1220601-081	Solid	06/01/22 21:59

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22E0245-13	XDT_m1220601-082	Solid	06/01/22 22:04
ZZZZZ	22E0245-13	XDT_m1220601-082	Solid	06/01/22 22:04
ZZZZZ	22E0245-13	XDT_m1220601-082	Solid	06/01/22 22:04
ZZZZZ	22E0245-13	XDT_m1220601-082	Solid	06/01/22 22:04
ZZZZZ	22E0245-13	XDT_m1220601-082	Solid	06/01/22 22:04
ZZZZZ	22E0245-13	XDT_m1220601-082	Solid	06/01/22 22:04
ZZZZZ	22E0245-14	XDT_m1220601-083	Solid	06/01/22 22:09
ZZZZZ	22E0245-14	XDT_m1220601-083	Solid	06/01/22 22:09
ZZZZZ	22E0245-14	XDT_m1220601-083	Solid	06/01/22 22:09
ZZZZZ	22E0245-14	XDT_m1220601-083	Solid	06/01/22 22:09
ZZZZZ	22E0245-14	XDT_m1220601-083	Solid	06/01/22 22:09
ZZZZZ	22E0245-14	XDT_m1220601-083	Solid	06/01/22 22:09
ZZZZZ	22E0245-16	XDT_m1220601-084	Solid	06/01/22 22:14
ZZZZZ	22E0245-16	XDT_m1220601-084	Solid	06/01/22 22:14
ZZZZZ	22E0245-16	XDT_m1220601-084	Solid	06/01/22 22:14
ZZZZZ	22E0245-16	XDT_m1220601-084	Solid	06/01/22 22:14
ZZZZZ	22E0245-16	XDT_m1220601-084	Solid	06/01/22 22:14
ZZZZZ	22E0245-16	XDT_m1220601-084	Solid	06/01/22 22:14
Instrument Blank	SKF0017-IBL8	XDT_m1220601-088	NA	06/01/22 22:36
Calibration Check	SKF0017-CCV8	XDT_m1220601-089	NA	06/01/22 22:41
Calibration Blank	SKF0017-CCB8	XDT_m1220601-090	NA	06/01/22 22:48
ZZZZZ	BKE0771-BLK1	XDT_m1220601-091	Solid	06/01/22 22:53
ZZZZZ	BKE0771-BS1	XDT_m1220601-092	Solid	06/01/22 22:58
ZZZZZ	22E0234-01	XDT_m1220601-093	Solid	06/01/22 23:03
ZZZZZ	22E0234-01	XDT_m1220601-093	Solid	06/01/22 23:03
ZZZZZ	22E0234-02	XDT_m1220601-094	Solid	06/01/22 23:08
ZZZZZ	22E0234-02	XDT_m1220601-094	Solid	06/01/22 23:08
ZZZZZ	22E0234-03	XDT_m1220601-095	Solid	06/01/22 23:13
ZZZZZ	22E0234-03	XDT_m1220601-095	Solid	06/01/22 23:13

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22E0234-04	XDT_m1220601-096	Solid	06/01/22 23:18
ZZZZZ	22E0234-04	XDT_m1220601-096	Solid	06/01/22 23:18
ZZZZZ	22E0245-03	XDT_m1220601-097	Solid	06/01/22 23:24
ZZZZZ	22E0245-03	XDT_m1220601-097	Solid	06/01/22 23:24
ZZZZZ	22E0245-03	XDT_m1220601-097	Solid	06/01/22 23:24
ZZZZZ	22E0245-03	XDT_m1220601-097	Solid	06/01/22 23:24
ZZZZZ	22E0245-03	XDT_m1220601-097	Solid	06/01/22 23:24
ZZZZZ	22E0245-03	XDT_m1220601-097	Solid	06/01/22 23:24
ZZZZZ	22E0245-12	XDT_m1220601-098	Solid	06/01/22 23:29
ZZZZZ	22E0245-12	XDT_m1220601-098	Solid	06/01/22 23:29
ZZZZZ	22E0245-12	XDT_m1220601-098	Solid	06/01/22 23:29
ZZZZZ	22E0245-12	XDT_m1220601-098	Solid	06/01/22 23:29
ZZZZZ	22E0245-12	XDT_m1220601-098	Solid	06/01/22 23:29
ZZZZZ	22E0245-12	XDT_m1220601-098	Solid	06/01/22 23:29
ZZZZZ	22E0245-15	XDT_m1220601-099	Solid	06/01/22 23:34
ZZZZZ	22E0245-15	XDT_m1220601-099	Solid	06/01/22 23:34
ZZZZZ	22E0245-15	XDT_m1220601-099	Solid	06/01/22 23:34
ZZZZZ	22E0245-15	XDT_m1220601-099	Solid	06/01/22 23:34
ZZZZZ	22E0245-15	XDT_m1220601-099	Solid	06/01/22 23:34
ZZZZZ	22E0245-15	XDT_m1220601-099	Solid	06/01/22 23:34
Instrument Blank	SKF0017-IBL9	XDT_m1220601-100	NA	06/01/22 23:41
Calibration Check	SKF0017-CCV9	XDT_m1220601-101	NA	06/01/22 23:46
Calibration Blank	SKF0017-CCB9	XDT_m1220601-102	NA	06/01/22 23:53
ZZZZZ	22E0234-05	XDT_m1220601-103	Solid	06/01/22 23:58
ZZZZZ	22E0234-05	XDT_m1220601-103	Solid	06/01/22 23:58
ZZZZZ	22E0234-06	XDT_m1220601-104	Solid	06/02/22 00:03
ZZZZZ	22E0234-06	XDT_m1220601-104	Solid	06/02/22 00:03
ZZZZZ	22E0234-07	XDT_m1220601-105	Solid	06/02/22 00:08
ZZZZZ	22E0234-07	XDT_m1220601-105	Solid	06/02/22 00:08

Analytical Resources, LLC
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ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22E0234-10	XDT_m1220601-106	Solid	06/02/22 00:13
ZZZZZ	22E0234-10	XDT_m1220601-106	Solid	06/02/22 00:13
ZZZZZ	BKE0771-SRM1	XDT_m1220601-111	Solid	06/02/22 00:40
Instrument Blank	SKF0017-IBLA	XDT_m1220601-112	NA	06/02/22 00:46
Calibration Check	SKF0017-CCVA	XDT_m1220601-113	NA	06/02/22 00:51
Calibration Blank	SKF0017-CCBA	XDT_m1220601-114	NA	06/02/22 00:59
ZZZZZ	BKF0010-BLK1	XDT_m1220601-117	Solid	06/02/22 01:14
ZZZZZ	BKF0010-BS1	XDT_m1220601-118	Solid	06/02/22 01:19
ZZZZZ	22E0234-08	XDT_m1220601-119	Solid	06/02/22 01:24
ZZZZZ	22E0234-08	XDT_m1220601-119	Solid	06/02/22 01:24
ZZZZZ	22E0234-09	XDT_m1220601-120	Solid	06/02/22 01:29
ZZZZZ	22E0234-09	XDT_m1220601-120	Solid	06/02/22 01:29
ZZZZZ	22E0234-11	XDT_m1220601-121	Solid	06/02/22 01:34
ZZZZZ	22E0234-11	XDT_m1220601-121	Solid	06/02/22 01:34
ZZZZZ	22E0234-12	XDT_m1220601-122	Solid	06/02/22 01:39
ZZZZZ	22E0234-12	XDT_m1220601-122	Solid	06/02/22 01:39
ZZZZZ	22E0234-13	XDT_m1220601-123	Solid	06/02/22 01:44
ZZZZZ	22E0234-13	XDT_m1220601-123	Solid	06/02/22 01:44
ZZZZZ	22E0234-14	XDT_m1220601-124	Solid	06/02/22 01:49
ZZZZZ	22E0234-14	XDT_m1220601-124	Solid	06/02/22 01:49
Calibration Check	SKF0017-CCVB	XDT_m1220601-125	NA	06/02/22 01:57
Calibration Blank	SKF0017-CCBB	XDT_m1220601-126	NA	06/02/22 02:05
ZZZZZ	22E0295-01	XDT_m1220601-131	Solid	06/02/22 02:34
ZZZZZ	22E0295-01	XDT_m1220601-131	Solid	06/02/22 02:34
ZZZZZ	22E0295-01	XDT_m1220601-131	Solid	06/02/22 02:34
Instrument Blank	SKF0017-IBLB	XDT_m1220601-136	NA	06/02/22 03:01
Calibration Check	SKF0017-CCVC	XDT_m1220601-137	NA	06/02/22 03:06
Calibration Blank	SKF0017-CCBC	XDT_m1220601-138	NA	06/02/22 03:13
Calibration Check	SKF0017-CCVD	XDT_m1220601-140	NA	06/02/22 03:23

Analytical Resources, LLC
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ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SKF0017-CCBD	XDT_m1220601-141	NA	06/02/22 03:31
SIB-SW-AAM131-CAR-ST-050522	22E0328-01	XDT_m1220601-142	Water	06/02/22 03:36
SIB-SW-AAM131-CAR-ST-050522	22E0328-01	XDT_m1220601-142	Water	06/02/22 03:36
SIB-SW-AAQ005-CAR-ST-050522	22E0328-02	XDT_m1220601-143	Water	06/02/22 03:41
SIB-SW-AAQ005-CAR-ST-050522	22E0328-02	XDT_m1220601-143	Water	06/02/22 03:41
SIB-SW-AAM169-CAR-ST-050522	22E0328-03	XDT_m1220601-144	Water	06/02/22 03:46
SIB-SW-AAM169-CAR-ST-050522	22E0328-03	XDT_m1220601-144	Water	06/02/22 03:46
SIB-SW-AAM107-CAR-ST-050522	22E0328-04	XDT_m1220601-145	Water	06/02/22 03:51
SIB-SW-AAM107-CAR-ST-050522	22E0328-04	XDT_m1220601-145	Water	06/02/22 03:51
SIB-SW-AAP957-CAR-ST-050522	22E0328-05	XDT_m1220601-146	Water	06/02/22 03:56
SIB-SW-AAP957-CAR-ST-050522	22E0328-05	XDT_m1220601-146	Water	06/02/22 03:56
SIB-SW-WR198-050522	22E0328-06	XDT_m1220601-147	Water	06/02/22 04:01
SIB-SW-WR198-050522	22E0328-06	XDT_m1220601-147	Water	06/02/22 04:01
SIB-SW-WR186-050522	22E0328-07	XDT_m1220601-148	Water	06/02/22 04:06
SIB-SW-WR186-050522	22E0328-07	XDT_m1220601-148	Water	06/02/22 04:06
SIB-SW-WR15-050522	22E0328-08	XDT_m1220601-149	Water	06/02/22 04:11
SIB-SW-WR15-050522	22E0328-08	XDT_m1220601-149	Water	06/02/22 04:11
SIB-SW-WR428-050522	22E0328-09	XDT_m1220601-150	Water	06/02/22 04:17
SIB-SW-WR428-050522	22E0328-09	XDT_m1220601-150	Water	06/02/22 04:17
Instrument Blank	SKF0017-IBLC	XDT_m1220601-151	NA	06/02/22 04:23
Calibration Check	SKF0017-CCVE	XDT_m1220601-152	NA	06/02/22 04:28
Calibration Blank	SKF0017-CCBE	XDT_m1220601-153	NA	06/02/22 04:36
SIB-SW-WR71-050522	22E0328-10	XDT_m1220601-154	Water	06/02/22 04:41
SIB-SW-WR71-050522	22E0328-10	XDT_m1220601-154	Water	06/02/22 04:41
Instrument Blank	SKF0017-IBLD	XDT_m1220601-155	NA	06/02/22 04:46
Instrument Blank	SKF0017-IBLE	XDT_m1220601-163	NA	06/02/22 05:30
Calibration Check	SKF0017-CCVF	XDT_m1220601-164	NA	06/02/22 05:35
Calibration Blank	SKF0017-CCBF	XDT_m1220601-165	NA	06/02/22 05:43
Instrument Blank	SKF0017-IBLF	XDT_m1220601-170	NA	06/02/22 06:14

Analytical Resources, LLC
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ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SKF0017-IBLG	XDT_m1220601-175	NA	06/02/22 06:44
Calibration Check	SKF0017-CCVG	XDT_m1220601-176	NA	06/02/22 06:49
Calibration Blank	SKF0017-CCBG	XDT_m1220601-177	NA	06/02/22 06:57

Analytical Resources, LLC
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ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS1
Calibration: FF00009
Sequence: SKF0017
Standard ID: K004536

Lab Sample ID	Analyte	True	Found	%R	Units
SKF0017-IFA1	Chromium-52	0	0.8090		ug/L
	Chromium-53	0	12.4880		ug/L
	Lead-208	0	0.0250		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
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ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS1
Calibration: FF00009
Sequence: SKF0017
Standard ID: K004536

Lab Sample ID	Analyte	True	Found	%R	Units
SKF0017-IFB1	Chromium-52	20.000	19.337	96.7	ug/L
	Chromium-53	20.000	31.112	156	ug/L
	Lead-208	0	0.0260		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS1
Calibration: FF00009
Sequence: SKF0017
Lab Sample ID: SKF0017-CRL1

Analyte	True	Found	%R	Units	QC Limts
Chromium-52	0.50000	0.473	94.6	ug/L	50 - 150
Chromium-53	0.50000	0.480	96.0	ug/L	50 - 150
Lead-208	0.10000	0.0990	99.0	ug/L	50 - 150

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Calibration: FF00009
Laboratory ID: SKF0017-HCV1
Sequence: SKF0017
Standard ID: K004841

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	200.00	196	-2.0	10.00
Chromium-53	200.00	194	-3.2	10.00
Lead-208	200.00	186	-7.0	10.00

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Calibration: FF00009
Laboratory ID: SKF0017-HCV2
Sequence: SKF0017
Standard ID: K004537

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	300.00	292	-2.8	10.00
Chromium-53	300.00	294	-2.1	10.00
Lead-208	300.00	271	-9.6	10.00

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HOLDING TIME SUMMARY

Analysis: EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
SIB-SW-AAM131-CAR-ST-050522 22E0328-01	05/05/22 09:25	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 03:36	28	180	
SIB-SW-AAQ005-CAR-ST-050522 22E0328-02	05/05/22 08:45	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 03:41	28	180	
SIB-SW-AAM169-CAR-ST-050522 22E0328-03	05/05/22 14:38	05/18/22 13:02	06/01/22 12:08	26	180	06/02/22 03:46	28	180	
SIB-SW-AAM107-CAR-ST-050522 22E0328-04	05/05/22 15:18	05/18/22 13:02	06/01/22 12:08	26	180	06/02/22 03:51	28	180	
SIB-SW-AAP957-CAR-ST-050522 22E0328-05	05/05/22 16:40	05/18/22 13:02	06/01/22 12:08	26	180	06/02/22 03:56	27	180	
SIB-SW-WR198-050522 22E0328-06	05/05/22 08:40	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 04:01	28	180	
SIB-SW-WR186-050522 22E0328-07	05/05/22 09:12	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 04:06	28	180	
SIB-SW-WR15-050522 22E0328-08	05/05/22 09:25	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 04:11	28	180	
SIB-SW-WR428-050522 22E0328-09	05/05/22 07:00	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 04:17	28	180	
SIB-SW-WR71-050522 22E0328-10	05/05/22 00:00	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 04:41	28	180	

* Indicates hold time exceedance.

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METHOD DETECTION AND REPORTING LIMITS

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-202
Matrix: Water
Instrument: ICPMS1

Analyte	MDL	RL	Units
Chromium-52	0.260	0.500	ug/L
Chromium-53	0.239	0.500	ug/L
Lead-208	0.0513	0.100	ug/L

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAG10
Lot Number:	P2-AG688237
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Silver
Starting Material:	Ag Shot
Starting Material Lot#:	2217
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10004 ± 30 µg/mL

Density: 1.054 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9984 ± 32 µg/mL**
ICP Assay NIST SRM 3151 Lot Number: 160729

Assay Method #2 **10016 ± 26 µg/mL**
Volhard NIST SRM 999c Lot Number: 999c

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Ag	<		M	Eu	<	0.000253	O	Na		0.005563	M	Se	<	0.018179	M	Zn		0.005800
O	Al		0.006296	O	Fe		0.002932	M	Nb	<	0.000253	M	Si		0.022487	M	Zr	<	0.005559
M	As	<	0.002403	M	Ga	<	0.000253	M	Nd	<	0.000253	M	Sm	<	0.000253				
M	Au		0.001635	M	Gd	<	0.000253	O	Ni	<	0.005472	M	Sn		0.001928				
O	B	<	0.009978	M	Ge	<	0.000754	M	Os	<	0.000254	O	Sr		0.000086				
M	Ba	<	0.000785	M	Hf	<	0.000253	M	P	<	0.053784	M	Ta	<	0.000253				
M	Be	<	0.002407	M	Hg	<	0.001332	M	Pb		0.003281	M	Tb	<	0.000253				
M	Bi		0.001671	M	Ho	<	0.000253	M	Pd	<	0.001382	M	Te	<	0.003715				
O	Ca		0.007116	M	In	<	0.003483	M	Pr	<	0.000253	M	Th	<	0.000253				
M	Cd	<	0.000253	M	Ir	<	0.000254	M	Pt	<	0.000253	M	Ti	<	0.002706				
M	Ce	<	0.000573	O	K		0.004010	M	Rb	<	0.000253	M	Tl	<	0.000253				
M	Co	<	0.000253	M	La	<	0.000253	M	Re	<	0.000253	M	Tm	<	0.000253				
O	Cr	<	0.005043	O	Li	<	0.000214	M	Rh	<	0.000253	M	U	<	0.000253				
M	Cs	<	0.002769	M	Lu	<	0.000253	M	Ru	<	0.000254	M	V	<	0.000822				
O	Cu		0.004614	O	Mg		0.001035	M	S	<	0.560935	M	W	<	0.002146				
M	Dy	<	0.000253	M	Mn	<	0.000253	M	Sb	<	0.006899	M	Y	<	0.000253				
M	Er	<	0.000253	M	Mo	<	0.000479	M	Sc	<	0.000733	M	Yb	<	0.000253				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 107.87 +1 6 $Ag(H_2O)_6^+$

Chemical Compatibility -Stable in HNO_3, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [$AgCl_{x1-x}$] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite , bromide, chloride, iodide, carbonate , chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

Stability - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ag Containing Samples (Preparation and Solution) -Metal (Soluble in HNO_3); Oxides (Soluble in HNO_3); Ores (Digestion with conc. HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 107 amu	1 ppt	N/A	91Zr16O
ICP-OES 243.779 nm	0.12/0.01 µg/mL	1	Mn, Th, Ni, Rh
ICP-OES 328.068 nm	0.007/0.0007 µg/mL	1	Ce, Rh, V
ICP-OES 338.289 nm	0.013/0.001 µg/mL	1	Ce, Cr, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 29, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 29, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAL10
Lot Number:	S2-AL700843
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Aluminum
Starting Material:	Al(NO3)3 * 9H2O
Starting Material Lot#:	P2-2302
Starting Material Purity:	99.9913%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10011 ± 31 µg/mL

Density: 1.087 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10015 ± 44 µg/mL**
ICP Assay NIST SRM 3101a Lot Number: 140903

Assay Method #2 **10008 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10014 ± 36 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001500	M	Eu	<	0.000680	O	Na		0.510200	M	Se	<	0.014000	M	Zn		0.009183
s	Al	<		O	Fe		0.114284	M	Nb	<	0.000680	O	Si		0.053060	O	Zr		0.003673
M	As	<	0.006800	O	Ga		0.191835	M	Nd	<	0.000680	M	Sm	<	0.000680				
M	Au	<	0.000680	M	Gd	<	0.004100	O	Ni		0.001102	M	Sn	<	0.006800				
O	B	<	0.021000	M	Ge	<	0.001400	M	Os	<	0.008700	O	Sr		0.006530				
O	Ba		0.012652	M	Hf	<	0.002700	n	P	<		M	Ta	<	0.000680				
O	Be	<	0.001300	M	Hg	<	0.006100	M	Pb		0.006530	M	Tb	<	0.000680				
M	Bi	<	0.008100	M	Ho	<	0.000680	M	Pd	<	0.000680	M	Te	<	0.030000				
O	Ca		0.071428	M	In	<	0.000900	M	Pr	<	0.000680	M	Th	<	0.000680				
M	Cd	<	0.001400	M	Ir	<	0.000680	M	Pt	<	0.000680	O	Ti		0.001142				
M	Ce	<	0.002700	O	K		0.053060	M	Rb	<	0.014000	M	Tl	<	0.000680				
O	Co		0.001979	M	La	<	0.002900	M	Re	<	0.000680	M	Tm	<	0.000680				
O	Cr		0.014285	O	Li		0.000142	M	Rh	<	0.000680	M	U	<	0.001400				
M	Cs		0.005306	M	Lu	<	0.000680	M	Ru	<	0.000680	M	V	<	0.005400				
O	Cu		0.003469	O	Mg		0.069387	i	S	<		M	W	<	0.012000				
M	Dy	<	0.005400	O	Mn		0.001653	M	Sb	<	0.004200	M	Y	<	0.000680				
M	Er	<	0.000680	M	Mo	<	0.012000	M	Sc	<	0.002100	M	Yb	<	0.000680				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98 +3 6 Al(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, HF and H2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Al Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); a- Al2O3 (Na2CO3 fusion in Pt0);

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 27 amu	30 ppt	N/A	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+
ICP-OES 167.078 nm	0.1/0.009 µg/mL	1	Fe
ICP-OES 394.401 nm	0.05/0.006 µg/mL	1	U, Ce
ICP-OES 396.152 nm	0.03/0.006 µg/mL	1	Mo, Zr, Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 27, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 27, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAS10
Lot Number:	R2-AS691113
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Arsenic
Starting Material:	As Pieces
Starting Material Lot#:	2208
Starting Material Purity:	99.9980%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9981 ± 55 µg/mL

Density: 1.028 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9981 ± 55 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001578	M	Eu	<	0.000526	O	Na		0.036136	M	Se	<	0.014204	O	Zn	<	0.003390
O	Al		0.006694	M	Fe		0.002633	O	Nb	<	0.011526	O	Si		0.139479	M	Zr	<	0.003156
s	As	<		M	Ga	<	0.000526	M	Nd	<	0.000526	M	Sm	<	0.000526				
M	Au	<	0.000526	M	Gd	<	0.000526	O	Ni	<	0.005537	M	Sn	<	0.001052				
M	B		0.017011	M	Ge	<	0.000526	M	Os	<	0.000526	M	Sr	<	0.000526				
M	Ba	<	0.000526	M	Hf	<	0.000526	O	P	<	0.056500	M	Ta	<	0.000526				
O	Be	<	0.001130	M	Hg	<	0.002104	M	Pb	<	0.000526	M	Tb	<	0.000526				
M	Bi	<	0.002104	M	Ho	<	0.000526	M	Pd	<	0.000526	M	Te	<	0.003682				
O	Ca		0.005657	M	In	<	0.000526	M	Pr	<	0.002630	M	Th	<	0.000526				
M	Cd	<	0.000526	M	Ir	<	0.000526	M	Pt	<	0.000526	O	Ti	<	0.001017				
M	Ce	<	0.000526	O	K		0.003865	M	Rb	<	0.002104	M	Tl	<	0.000526				
M	Co	<	0.003156	M	La	<	0.000526	M	Re	<	0.000526	M	Tm	<	0.000526				
M	Cr		0.000877	M	Li	<	0.000526	M	Rh	<	0.000526	M	U	<	0.000526				
M	Cs	<	0.002104	M	Lu	<	0.000526	M	Ru	<	0.000526	M	V	<	0.001578				
M	Cu	<	0.003156	O	Mg		0.000235	O	S	<	0.056500	M	W	<	0.000526				
M	Dy	<	0.000526	M	Mn	<	0.001052	M	Sb	<	0.000526	M	Y	<	0.000526				
M	Er	<	0.000526	M	Mo	<	0.000526	M	Sc	<	0.002104	M	Yb	<	0.000526				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.92 ; mix of +3 and +5 ; 6 ; H_3AsO_4 and $HAsO_2$

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl, HNO_3,H_3PO_4, H_2SO_4 and HF aqueous matrices water and NH_4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container.

As Containing Samples (Preparation and Solution) - Metal (soluble in 1:1 H_2O / HNO_3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphic form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K_2CO_3 and KNO_3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na_2CO_3 / Na_2O_2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 75 amu	20 ppt	N/A	40Ar35Cl, 59Co16O, 36Ar38Ar1H,8Ar37Cl,Ar39K, 150Nd2+,150Sm2+
ICP-OES 189.042 nm	0.05/0.005 µg/mL	1	Cr
ICP-OES 193.696 nm	0.1/0.01 µg/mL	1	V, Ge
ICP-OES 228.812 nm	0.1/0.01 µg/mL	1	Cd, Pt, Ir, Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 25, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 25, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBA10
Lot Number:	P2-BA682107
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Barium
Starting Material:	Ba(NO3)2
Starting Material Lot#:	Mixed Lots
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10072 ± 32 µg/mL

Density: 1.024 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10054 ± 80 µg/mL**
ICP Assay NIST SRM 3104a Lot Number: 140909

Assay Method #2 **10075 ± 30 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001538	O	Eu	<	0.028728	O	Na		0.006767	M	Se	<	0.007964	O	Zn		0.004335
M	Al		0.005194	M	Fe		0.016554	M	Nb	<	0.000200	O	Si	<	0.020780	M	Zr	<	0.000271
M	As	<	0.000519	M	Ga	<	0.000200	M	Nd	<	0.000200	M	Sm	<	0.082480				
M	Au	<	0.003452	M	Gd	<	0.000200	M	Ni	<	0.001290	M	Sn	<	0.000200				
M	B	<	0.002519	M	Ge	<	0.000430	M	Os	<	0.000752	O	Sr		0.027070				
s	Ba	<		M	Hf	<	0.002746	O	P	<	0.044677	M	Ta	<	0.001008				
M	Be	<	0.000430	M	Hg	<	0.001063	M	Pb	<	0.002257	M	Tb	<	0.000200				
M	Bi	<	0.002971	M	Ho	<	0.000200	M	Pd	<	0.000286	M	Te	<	0.001470				
O	Ca		0.026224	M	In	<	0.000200	M	Pr	<	0.000200	M	Th	<	0.000200				
M	Cd	<	0.000200	M	Ir	<	0.000446	M	Pt	<	0.000200	M	Ti	<	0.000324				
M	Ce	<	0.004362	O	K		0.011526	M	Rb		0.001487	M	Tl	<	0.000200				
M	Co	<	0.000200	O	La	<	0.091587	M	Re	<	0.000200	M	Tm	<	0.000954				
M	Cr	<	0.002191	O	Li	<	0.002181	M	Rh	<	0.000200	M	U	<	0.000200				
M	Cs	<	0.001640	M	Lu	<	0.002934	M	Ru	<	0.000200	M	V	<	0.000229				
M	Cu	<	0.003646	O	Mg		0.002379	O	S	<	0.073041	M	W	<	0.001627				
M	Dy	<	0.000200	M	Mn	<	0.000902	M	Sb	<	0.000514	O	Y	<	0.019637				
M	Er	<	0.000556	M	Mo	<	0.000455	M	Sc	<	0.000478	M	Yb	<	0.001991				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33 +2 6 $Ba(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.

Ba Containing Samples (Preparation and Solution) -Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 138 amu	1 ppt	N/A	122Sn16O, 122Te16O
ICP-OES 230.424 nm	0.004/0.0005 µg/mL	1	Mo, Ir, Co
ICP-OES 233.527 nm	0.004/0.0003 µg/mL	1	
ICP-OES 455.403 nm	0.002/0.0001 µg/mL	1	Zr, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 13, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 13, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBE10
Lot Number:	P2-BE678865
Matrix:	6% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Beryllium
Starting Material:	Beryllium diacetate
Starting Material Lot#:	2221
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10036 ± 35 µg/mL

Density: 1.140 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10051 ± 42 µg/mL**
ICP Assay NIST SRM 3105a Lot Number: 090514

Assay Method #2 **10008 ± 59 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.045414	M	Eu	<	0.000254	O	Na		0.015009	M	Se	<	0.015257	O	Zn		0.004059
O	Al		0.008058	O	Fe		0.011749	M	Nb	<	0.000254	O	Si		0.063793	O	Zr	<	0.007064
M	As	<	0.006473	M	Ga	<	0.000254	M	Nd	<	0.000254	M	Sm	<	0.000254				
M	Au	<	0.000248	M	Gd	<	0.000254	M	Ni	<	0.002034	M	Sn	<	0.002542				
O	B	<	0.021661	M	Ge	<	0.000508	M	Os	<	0.000248	M	Sr	<	0.000254				
M	Ba		0.001760	M	Hf	<	0.000254	O	P	<	0.666500	M	Ta	<	0.000254				
s	Be	<		M	Hg	<	0.001244	M	Pb	<	0.001271	M	Tb	<	0.000254				
M	Bi	<	0.000254	M	Ho	<	0.000254	M	Pd	<	0.000254	M	Te	<	0.001780				
O	Ca		0.015256	M	In	<	0.000254	M	Pr	<	0.000254	M	Th	<	0.000254				
M	Cd	<	0.000254	M	Ir	<	0.000248	M	Pt	<	0.000254	O	Ti	<	0.002266				
M	Ce	<	0.000254	O	K		0.031127	M	Rb	<	0.000508	M	Tl	<	0.000254				
M	Co	<	0.004068	M	La	<	0.000254	M	Re	<	0.000254	M	Tm	<	0.000254				
M	Cr	<	0.001525	O	Li	<	0.000666	M	Rh	<	0.000254	M	U	<	0.000254				
M	Cs		0.001642	M	Lu	<	0.000254	M	Ru	<	0.000248	M	V	<	0.000508				
M	Cu	<	0.005085	O	Mg		0.001907	i	S	<		M	W	<	0.004068				
M	Dy	<	0.000254	O	Mn	<	0.001333	M	Sb	<	0.000254	M	Y	<	0.000254				
M	Er	<	0.000254	M	Mo	<	0.000762	O	Sc	<	0.001333	M	Yb	<	0.000254				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 9.01 +2 4 Be(H2O)4+2

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO3 / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta l(is best dissolved in diluted H2SO4); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO4 fusion); Ores (H2SO4/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 9 amu	4 ppt	N/A	
ICP-OES 234.861 nm	0.0003/0.00016 µg/mL	1	Fe, Ta, Mo
ICP-OES 313.042 nm	0.0003/0.00009 µg/mL	1	V, Ce, U
ICP-OES 313.107 nm	0.0007/0.0005 µg/mL	1	Ce, Th, Tm

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

April 22, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 22, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCA10
Lot Number:	R2-CA697921
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Calcium
Starting Material:	Calcium Oxide
Starting Material Lot#:	P2-CA677788
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9985 ± 30 µg/mL

Density: 1.039 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9976 ± 43 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 130213

Assay Method #2 **9965 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10008 ± 26 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002500	M	Eu	<	0.001300	M	Na		0.008214	O	Se	<	0.022000	O	Zn		0.001158
O	Al	<	0.030000	O	Fe		0.002316	M	Nb	<	0.001300	O	Si	<	0.022000	M	Zr	<	0.006200
O	As	<	0.025000	M	Ga	<	0.002500	M	Nd	<	0.001300	M	Sm	<	0.001300				
M	Au	<	0.013000	M	Gd	<	0.001300	O	Ni	<	0.005300	O	Sn	<	0.013000				
O	B	<	0.006900	O	Ge	<	0.018000	M	Os	<	0.002500	M	Sr		0.115847				
M	Ba		0.000905	M	Hf	<	0.002500	O	P	<	0.027000	M	Ta	<	0.008600				
O	Be	<	0.000270	M	Hg	<	0.001300	M	Pb		0.001685	M	Tb	<	0.001300				
M	Bi	<	0.002500	M	Ho	<	0.001300	M	Pd	<	0.006200	O	Te	<	0.045000				
s	Ca	<		M	In	<	0.001300	M	Pr	<	0.001300	M	Th	<	0.001300				
O	Cd	<	0.000540	M	Ir	<	0.001300	M	Pt	<	0.001300	O	Ti	<	0.004200				
M	Ce	<	0.001300	O	K		0.015797	M	Rb	<	0.014000	M	Tl	<	0.001300				
O	Co		0.000558	M	La	<	0.001300	M	Re	<	0.001300	M	Tm	<	0.001300				
O	Cr	<	0.006000	O	Li	<	0.006900	M	Rh	<	0.002500	M	U	<	0.001300				
M	Cs	<	0.001300	M	Lu	<	0.001300	M	Ru	<	0.003800	O	V	<	0.002200				
M	Cu	<	0.002500	O	Mg		0.002843	n	S	<		M	W	<	0.012000				
M	Dy	<	0.001300	O	Mn		0.000115	M	Sb	<	0.007400	M	Y	<	0.001300				
M	Er	<	0.001300	M	Mo		0.002527	O	Sc	<	0.006100	M	Yb	<	0.001300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.08 +2 6 Ca(H2O)6+2

Chemical Compatibility - Soluble in HCl and HNO3. Avoid H2SO4, HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.

Ca Containing Samples (Preparation and Solution) -Metal (best dissolved in diluted HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO2). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO3. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na2CO3 followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 44 amu	1200 ppt	n/a	16O212C, 28Si16O, 88Sr
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	Ge

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 09, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 09, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCD10
Lot Number:	P2-CD685077
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cadmium
Starting Material:	Cd Shot
Starting Material Lot#:	1954
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9954 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9956 ± 54 µg/mL**
ICP Assay NIST SRM 3108 Lot Number: 130116

Assay Method #2 **9953 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	<	0.006348	M	Eu	<	0.010622	O	Na		0.004020	M	Se	<	0.008116	O	Zn	<	0.002152
O	Al		0.011566	M	Fe		0.003011	M	Nb	<	0.000405	O	Si		0.005480	M	Zr	<	0.000405
M	As	<	0.001623	M	Ga	<	0.000405	M	Nd	<	0.000405	M	Sm	<	0.000405				
M	Au	<	0.000405	M	Gd	<	0.000405	M	Ni	<	0.002840	M	Sn	<	0.001217				
M	B	<	0.004463	M	Ge	<	0.000405	M	Os	<	0.000405	M	Sr	<	0.000405				
O	Ba	<	0.000968	M	Hf	<	0.000405	O	P	<	0.045730	M	Ta	<	0.000405				
M	Be	<	0.000405	O	Hg	<	0.002152	M	Pb	<	0.002434	M	Tb	<	0.000405				
M	Bi	<	0.000405	M	Ho	<	0.000405	M	Pd	<	0.000405	M	Te	<	0.016636				
O	Ca		0.002946	O	In	<	0.021520	M	Pr	<	0.000405	M	Th	<	0.000405				
s	Cd	<		M	Ir	<	0.000405	M	Pt	<	0.000405	M	Ti	<	0.001217				
M	Ce	<	0.000405	O	K		0.008179	M	Rb	<	0.000405	M	Tl	<	0.004495				
M	Co	<	0.000405	M	La	<	0.000405	M	Re	<	0.000405	M	Tm	<	0.000405				
M	Cr		0.002907	M	Li	<	0.000405	M	Rh	<	0.000405	M	U	<	0.000405				
M	Cs	<	0.002374	M	Lu	<	0.000405	M	Ru	<	0.000405	M	V	<	0.003179				
M	Cu	<	0.002434	O	Mg		0.000137	O	S	<	0.037660	M	W	<	0.000405				
M	Dy	<	0.000405	M	Mn	<	0.001623	M	Sb	<	0.004057	M	Y	<	0.000405				
M	Er	<	0.000405	M	Mo	<	0.000811	M	Sc	<	0.001623	M	Yb	<	0.000811				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 112.41 +2 4 Cd2(OH) (aq)3+ and Cd(OH)(aq)

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 , and HF. Avoid basic media forming insoluble carbonate and hydroxide.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3 / LDPE container.

Cd Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (soluble in HCl or HNO3); Ores (dissolve in HCl /HNO3 then take to fumes with H2SO4. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 111 amu	11 ppt	n/a	95Mo16O
ICP-OES 214.438 nm	0.003 / 0.0003 µg/mL	1	Pt, Ir
ICP-OES 226.502 nm	0.003 / 0.0003 µg/mL	1	Ir
ICP-OES 228.802 nm	0.003 / 0.0003 µg/mL	1	Co, Ir, As, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 08, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 08, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCO10
Lot Number:	N2-CO671028
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cobalt
Starting Material:	COBALT
Starting Material Lot#:	1749
Starting Material Purity:	99.9978%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9988 ± 34 µg/mL

Density: 1.057 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9973 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10024 ± 50 µg/mL**
ICP Assay NIST SRM traceable to 3113 Lot Number: M2-CO661665

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.022956	M	Eu	<	0.000422	O	Na		0.008125	M	Se	<	0.009290	M	Zn		0.007197
O	Al		0.013621	O	Fe		0.048700	M	Nb	<	0.000422	O	Si		0.017539	M	Zr	<	0.014357
i	As	<		M	Ga	<	0.000844	M	Nd	<	0.017735	M	Sm	<	0.001689				
M	Au	<	0.000583	M	Gd		0.003247	O	Ni	<	0.043642	M	Sn	<	0.005067				
M	B	<	0.013512	M	Ge	<	0.004645	M	Os	<	0.000583	O	Sr		0.000841				
O	Ba		0.071210	M	Hf	<	0.000422	n	P	<		M	Ta	<	0.000422				
O	Be	<	0.001771	M	Hg	<	0.002334	M	Pb		0.010094	M	Tb	<	0.001689				
M	Bi		0.000614	M	Ho	<	0.000422	M	Pd	<	0.000422	M	Te	<	0.008445				
O	Ca		0.025034	M	In	<	0.003378	M	Pr	<	0.006756	M	Th	<	0.000422				
M	Cd	<	0.000844	M	Ir	<	0.000583	M	Pt	<	0.000422	M	Ti	<	0.002533				
M	Ce		0.002721	O	K		0.005785	M	Rb	<	0.001689	M	Tl	<	0.000422				
s	Co	<		M	La		0.000877	M	Re		0.016853	M	Tm	<	0.000422				
M	Cr	<	0.020269	O	Li		0.000262	M	Rh	<	0.000422	M	U	<	0.000422				
M	Cs		0.000877	M	Lu	<	0.000422	M	Ru	<	0.000583	M	V	<	0.001689				
M	Cu		0.007197	O	Mg		0.003444	n	S	<		M	W	<	0.000844				
M	Dy	<	0.000422	O	Mn	<	0.006072	M	Sb	<	0.005911	M	Y		0.001228				
M	Er	<	0.000422	M	Mo	<	0.005911	M	Sc	<	0.001689	M	Yb	<	0.003378				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.93 +2 6 Co(H2O)62+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO3).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 59 amu	2 ppt	n/a	42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl
ICP-OES 228.616 nm	0.01/0.001 µg/mL	1	
ICP-OES 237.862 nm	0.01/0.002 µg/mL	1	W, Re, Al, Ta
ICP-OES 238.892 nm	0.01/0.002 µg/mL	1	Fe, W, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 15, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 15, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Supervisor, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCR(3)10
Lot Number:	R2-CR691013
Matrix:	10% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Chromium
Starting Material:	Cr METAL
Starting Material Lot#:	2077
Starting Material Purity:	99.9942%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10044 ± 40 µg/mL

Density: 1.082 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10057 ± 58 µg/mL**
ICP Assay NIST SRM 3112a Lot Number: 170630

Assay Method #2 **10035 ± 50 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000540	M	Eu	<	0.003200	O	Na		0.130091	M	Se	<	0.012000	O	Zn	<	0.002700
O	Al		0.016634	O	Fe		0.202602	M	Nb	<	0.022000	n	Si	<		M	Zr	<	0.020000
M	As		0.003838	O	Ga	<	0.031000	M	Nd	<	0.000540	M	Sm	<	0.035000				
M	Au	<	0.000540	M	Gd	<	0.000540	O	Ni		0.009170	M	Sn		0.004051				
M	B	<	0.049000	M	Ge	<	0.005400	M	Os	<	0.088000	O	Sr	<	0.000250				
O	Ba	<	0.002000	M	Hf	<	0.000540	i	P	<		M	Ta	<	0.000540				
O	Be	<	0.000250	M	Hg	<	0.001600	M	Pb		0.002559	M	Tb	<	0.000540				
M	Bi		0.008956	M	Ho	<	0.000540	M	Pd	<	0.001100	M	Te	<	0.004800				
O	Ca		0.074642	M	In	<	0.001100	M	Pr	<	0.000540	M	Th	<	0.000540				
M	Cd	<	0.000540	M	Ir	<	0.000540	M	Pt	<	0.000540	O	Ti		0.013435				
M	Ce	<	0.000540	O	K		0.034122	i	Rb	<		M	Tl	<	0.001100				
O	Co	<	0.002900	M	La	<	0.001100	M	Re	<	0.002700	O	Tm	<	0.001800				
s	Cr	<		O	Li	<	0.000130	M	Rh	<	0.032000	M	U	<	0.001100				
M	Cs	<	0.019000	M	Lu	<	0.000540	M	Ru	<	0.094000	O	V		0.159949				
O	Cu		0.010023	O	Mg		0.001450	i	S	<		M	W	<	0.028000				
M	Dy	<	0.000540	O	Mn	<	0.014000	M	Sb	<	0.008600	M	Y	<	0.001100				
M	Er	<	0.016000	O	Mo	<	0.013000	O	Sc	<	0.001400	M	Yb	<	0.000540				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 52.00 +3 6 $Cr(H_2O)_6^{3+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr3 Containing Samples (Preparation and Solution) -Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1. B. Fusion with $NaKSO_4$ and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, B, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 52 amu	40 ppt	N/A	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.
ICP-OES 205.552 nm	0.006/0.0008 µg/mL	1	Os
ICP-OES 276.654 nm	0.01/0.001 µg/mL	1	Cu, Ta, V
ICP-OES 284.325 nm	0.008/0.0007 µg/mL	1	

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 25, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 25, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCU10
Lot Number:	R2-CU693370
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Copper
Starting Material:	Cu Metal
Starting Material Lot#:	2095
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10016 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10010 ± 55 µg/mL**
ICP Assay NIST SRM 3114 Lot Number: 121207

Assay Method #2 **10017 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10015 ± 25 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.007542	M	Eu	<	0.000942	O	Na		0.001434	M	Se	<	0.016971	M	Zn	<	0.005657
O	Al	<	0.000609	O	Fe		0.008698	M	Nb	<	0.000942	O	Si		0.003052	M	Zr	<	0.000942
M	As	<	0.010371	M	Ga	<	0.000942	M	Nd	<	0.000942	M	Sm	<	0.000942				
M	Au	<	0.001885	M	Gd	<	0.000942	M	Ni		0.003780	M	Sn	<	0.005657				
O	B		0.003662	M	Ge	<	0.005657	M	Os	<	0.000942	M	Sr	<	0.000942				
M	Ba		0.004252	M	Hf	<	0.000942	O	P	<	0.031668	M	Ta	<	0.000942				
M	Be	<	0.000942	O	Hg	<	0.007064	M	Pb		0.005788	M	Tb	<	0.000942				
M	Bi	<	0.000942	M	Ho	<	0.000942	M	Pd	<	0.000942	M	Te	<	0.004714				
O	Ca		0.002304	M	In	<	0.000942	M	Pr	<	0.000942	M	Th	<	0.000942				
M	Cd	<	0.000942	M	Ir	<	0.000942	M	Pt	<	0.000942	O	Ti	<	0.002801				
M	Ce	<	0.000942	O	K		0.000762	M	Rb	<	0.000942	M	Tl	<	0.000942				
M	Co		0.001890	M	La	<	0.000942	M	Re	<	0.000942	M	Tm	<	0.000942				
M	Cr	<	0.005657	O	Li	<	0.000243	i	Rh	<		M	U	<	0.000942				
M	Cs	<	0.000942	M	Lu	<	0.000942	M	Ru	<	0.039588	M	V	<	0.003771				
s	Cu	<		O	Mg		0.000320	O	S		0.007172	M	W	<	0.005657				
M	Dy	<	0.000942	O	Mn		0.000793	M	Sb	<	0.001885	M	Y	<	0.000942				
M	Er	<	0.000942	M	Mo	<	0.005657	M	Sc	<	0.000942	M	Yb	<	0.000942				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.55 +2 6 Cu(H2O)62+

Chemical Compatibility -Stable in HCl, HNO3, H2SO4, HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Cu Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 63 amu	10 ppt	n/a	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	Th, Ta, Nb, U, Hf
ICP-OES 224.700 nm	0.01/.001 µg/mL	1	Pb, Ir, Ni, W
ICP-OES 324.754 nm	0.06/.001 µg/mL		Nb, U, Th, Mo, Hf

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 05, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 05, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

Certificate of Analysis

Refine your results. Redefine your industry.

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Christiansburg, VA 24073 USA
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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	ARI-1
Lot Number:	S2-MEB704284
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Iron

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Iron, Fe	**10 000.0 ± 40.0 µg/mL**		

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 20, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGK10
Lot Number:	S2-K700978
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Potassium
Starting Material:	KNO3
Starting Material Lot#:	2313
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10016 ± 30 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10018 ± 54 µg/mL**
ICP Assay NIST SRM 3141a Lot Number: 140813

Assay Method #2 **10016 ± 24 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #3 **10014 ± 45 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001400	M	Eu	<	0.000660	O	Na		0.240000	M	Se	<	0.007900	O	Zn		0.017000
O	Al		0.001600	O	Fe		0.005800	M	Nb	<	0.000660	O	Si		0.012000	O	Zr	<	0.001600
M	As	<	0.005300	M	Ga	<	0.000660	M	Nd	<	0.000660	M	Sm	<	0.000660				
M	Au	<	0.002000	M	Gd	<	0.000660	O	Ni	<	0.004900	M	Sn	<	0.000660				
O	B	<	0.005600	M	Ge	<	0.002000	M	Os	<	0.003300	O	Sr		0.000055				
O	Ba	<	0.000860	M	Hf	<	0.000660	O	P	<	0.032000	M	Ta	<	0.000660				
O	Be	<	0.000082	M	Hg	<	0.002000	M	Pb	<	0.002300	M	Tb	<	0.000660				
M	Bi	<	0.006600	M	Ho	<	0.000660	M	Pd	<	0.000660	M	Te	<	0.017000				
O	Ca		0.031000	M	In	<	0.000660	M	Pr	<	0.000660	M	Th	<	0.000660				
O	Cd	<	0.000450	M	Ir	<	0.000660	M	Pt	<	0.002700	M	Ti	<	0.000660				
M	Ce	<	0.000660	s	K	<		M	Rb		0.480000	M	Tl	<	0.000660				
O	Co	<	0.000780	M	La	<	0.000660	M	Re	<	0.000660	M	Tm	<	0.000660				
O	Cr		0.000530	O	Li	<	0.000084	M	Rh	<	0.000660	M	U	<	0.000660				
M	Cs	<	0.000660	M	Lu	<	0.000660	M	Ru	<	0.000660	O	V	<	0.001100				
M	Cu	<	0.002700	O	Mg		0.006300	O	S		0.028000	M	W	<	0.000660				
M	Dy	<	0.000660	O	Mn		0.000480	M	Sb	<	0.000660	M	Y	<	0.000660				
M	Er	<	0.000660	M	Mo	<	0.000660	O	Sc	<	0.000340	O	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.10 +1 (6) K+(aq)

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 39 amu	10 ppt	n/a	38ArH, 23Na16O, 78Se
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	U, Ce
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

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- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 06, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 06, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMG10
Lot Number:	R2-MG695748
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Magnesium
Starting Material:	Magnesium Metal
Starting Material Lot#:	2168
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10044 ± 30 µg/mL

Density: 1.053 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10055 ± 26 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**10042 ± 57 µg/mL** ICP Assay NIST SRM 3131a Lot Number: 140110
Assay Method #3	**10033 ± 26 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.002104	M	Eu	<	0.000910	O	Na		0.071011	O	Se	<	0.048000	O	Zn		0.003296
M	Al		0.003550	M	Fe		0.002536	M	Nb	<	0.000460	O	Si	<	0.032000	O	Zr	<	0.002700
M	As	<	0.001400	M	Ga	<	0.000460	M	Nd	<	0.000910	M	Sm	<	0.000460				
M	Au	<	0.001400	M	Gd	<	0.000460	O	Ni	<	0.001600	M	Sn	<	0.002300				
O	B		0.006847	M	Ge	<	0.001400	M	Os	<	0.000460	O	Sr		0.000278				
O	Ba		0.000963	M	Hf	<	0.000460	O	P		0.015216	M	Ta	<	0.000460				
O	Be	<	0.000120	M	Hg	<	0.000460	M	Pb	<	0.000460	M	Tb	<	0.000460				
M	Bi	<	0.000460	M	Ho	<	0.000460	M	Pd	<	0.003200	M	Te	<	0.007300				
O	Ca		0.053258	M	In	<	0.000460	M	Pr	<	0.000460	M	Th	<	0.000460				
O	Cd	<	0.000360	M	Ir	<	0.000460	M	Pt	<	0.001900	O	Ti	<	0.001700				
M	Ce	<	0.002300	M	K		0.048186	M	Rb		0.002409	M	Tl		0.003043				
M	Co	<	0.000910	M	La	<	0.002800	M	Re	<	0.000460	M	Tm	<	0.000460				
M	Cr	<	0.002300	O	Li		0.027897	M	Rh	<	0.000460	M	U	<	0.000460				
M	Cs		0.001039	M	Lu	<	0.000460	M	Ru	<	0.000460	M	V	<	0.000460				
O	Cu	<	0.003000	s	Mg	<		O	S	<	0.190000	M	W	<	0.000460				
M	Dy	<	0.000460	O	Mn		0.015216	M	Sb		0.020796	O	Y	<	0.000720				
M	Er	<	0.000460	M	Mo	<	0.000910	O	Sc	<	0.000480	M	Yb	<	0.000460				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.31 +2 6 Mg(H2O)6+2

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4 avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.

Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 24 amu	42 ppt	n/a	7Li17O, 48Ti+2 , 48Ca+2
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	U, Hf, Cr, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 01, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 01, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMN10
Lot Number:	P2-MN687536
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Manganese
Starting Material:	Mn Metal
Starting Material Lot#:	2275
Starting Material Purity:	99.9909%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10046 ± 30 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10045 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10083 ± 68 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #3 **10031 ± 47 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001500	M	Eu	<	0.000730	O	Na		0.176713	M	Se	<	0.006600	M	Zn		0.009960
O	Al		0.004337	M	Fe	<	0.650000	M	Nb	<	0.000730	O	Si		0.097995	M	Zr	<	0.000730
M	As	<	0.008000	M	Ga		0.004337	M	Nd	<	0.001500	M	Sm	<	0.000730				
M	Au	<	0.000730	M	Gd	<	0.000730	M	Ni		0.024097	M	Sn	<	0.002200				
M	B		0.069078	M	Ge	<	0.004400	M	Os	<	0.000730	O	Sr		0.000931				
M	Ba	<	0.001500	M	Hf	<	0.000730	i	P	<		M	Ta	<	0.000730				
M	Be	<	0.000730	M	Hg	<	0.002200	M	Pb		0.007389	M	Tb	<	0.000730				
M	Bi	<	0.003000	M	Ho	<	0.000730	M	Pd	<	0.000730	M	Te	<	0.019000				
O	Ca		0.062652	M	In	<	0.003000	M	Pr	<	0.000730	M	Th	<	0.000730				
M	Cd	<	0.001500	M	Ir	<	0.000730	M	Pt	<	0.000730	O	Ti	<	0.006500				
M	Ce	<	0.007300	O	K		0.006425	M	Rb	<	0.006600	M	Tl	<	0.000730				
O	Co		0.014779	M	La	<	0.003000	M	Re	<	0.000730	M	Tm	<	0.000730				
O	Cr		0.273102	O	Li		0.000417	M	Rh	<	0.003000	M	U	<	0.001500				
M	Cs	<	0.000730	M	Lu	<	0.000730	M	Ru	<	0.004400	M	V	<	0.000730				
O	Cu		0.007711	O	Mg		0.321297	i	S	<		M	W	<	0.004400				
M	Dy	<	0.001500	s	Mn	<		M	Sb	<	0.021000	O	Y		0.001365				
M	Er	<	0.001500	M	Mo		0.010281	O	Sc	<	0.004100	M	Yb	<	0.000730				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.94 +2 6 Mn(H2O)62+

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3/LDPE container.

Mn Containing Samples (Preparation and Solution) -Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H2SO4 and heat to SO3 fumes - dense white fumes).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 55 amu	10 ppt	n/a	40Ar14N1H,39K16 O,37Cl18O,40Ar15 N,38Ar17O,36Ar18O 1H ,38Ar16O1H,37Cl17 O1H,23Na32S
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 05, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 05, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO10
Lot Number:	R2-MO693167
Matrix:	tr. NH4OH H2O
Value / Analyte(s):	10 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2257
Starting Material Purity:	99.9914%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 35 µg/mL

Density: 1.011 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10035 ± 67 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

Assay Method #2 **10005 ± 40 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001826	M	Eu	<	0.000300	M	Na		0.008750	M	Se	<	0.007480	M	Zn		0.002553
M	Al		0.004455	M	Fe		0.002093	M	Nb	<	0.015030	i	Si	<		M	Zr	<	0.005393
M	As	<	0.003006	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.006012	M	Gd	<	0.000300	M	Ni	<	0.004828	M	Sn		0.001004				
M	B	<	0.035184	M	Ge	<	0.000903	M	Os	<	0.003006	M	Sr		0.001903				
O	Ba		0.015613	M	Hf	<	0.000896	i	P	<		M	Ta	<	0.000300				
M	Be	<	0.003006	M	Hg	<	0.003006	M	Pb	<	0.000409	M	Tb	<	0.000300				
M	Bi	<	0.000401	M	Ho	<	0.000300	M	Pd	<	0.001114	M	Te	<	0.060122				
O	Ca		0.032589	M	In	<	0.015030	M	Pr	<	0.090184	M	Th	<	0.000786				
O	Cd	<	0.051800	M	Ir	<	0.007483	M	Pt	<	0.000388	O	Ti	<	0.093240				
M	Ce	<	0.015030	M	K		1.114508	M	Rb		0.040641	M	Tl		0.013140				
M	Co		0.004032	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.005931	O	Li		0.000215	M	Rh	<	0.000300	M	U		0.000937				
M	Cs		0.002812	M	Lu	<	0.000300	M	Ru	<	0.003006	M	V	<	0.000759				
M	Cu		0.005172	M	Mg		0.005212	i	S	<		M	W		0.592427				
M	Dy	<	0.000300	M	Mn		0.000952	M	Sb		0.003147	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.009019	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4] -2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5] -2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4] -2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br16O,190Os2+,190Pt2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 28, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 28, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Michael L Booth

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

Paul R Gaines

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNA10
Lot Number:	S2-NA700842
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Sodium
Starting Material:	Na2CO3
Starting Material Lot#:	2274
Starting Material Purity:	99.9958%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10053 ± 30 µg/mL

Density: 1.036 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10070 ± 26 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **10012 ± 31 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 120715

Assay Method #3 **10059 ± 20 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	<	0.000250	M	Eu	<	0.000840	s	Na	<		O	Se	<	0.004700	O	Zn		0.000226
O	Al		0.003688	O	Fe		0.001560	O	Nb	<	0.001300	O	Si		0.049648	O	Zr		0.000680
O	As	<	0.006900	M	Ga	<	0.000840	M	Nd	<	0.000840	M	Sm	<	0.000840				
M	Au	<	0.000840	M	Gd	<	0.000840	O	Ni	<	0.000250	M	Sn	<	0.001700				
O	B		0.000936	M	Ge	<	0.003400	M	Os	<	0.000840	O	Sr		0.000255				
O	Ba		0.002269	M	Hf	<	0.000840	O	P		0.006525	M	Ta	<	0.004200				
O	Be	<	0.000130	M	Hg	<	0.001700	M	Pb	<	0.000840	M	Tb	<	0.000840				
O	Bi	<	0.008100	M	Ho	<	0.000840	M	Pd	<	0.000840	O	Te	<	0.004800				
O	Ca		0.085112	M	In	<	0.000840	M	Pr	<	0.000840	M	Th	<	0.002500				
O	Cd	<	0.000250	M	Ir	<	0.000840	M	Pt	<	0.000840	O	Ti		0.000553				
M	Ce	<	0.001700	O	K		1.049718	M	Rb	<	0.003400	M	Tl	<	0.000840				
O	Co	<	0.000370	M	La	<	0.000840	M	Re	<	0.000840	M	Tm	<	0.000840				
O	Cr	<	0.001400	O	Li		0.000069	M	Rh	<	0.000840	M	U	<	0.000840				
M	Cs	<	0.003400	M	Lu	<	0.000840	M	Ru	<	0.001700	O	V	<	0.001600				
O	Cu	<	0.001400	O	Mg		0.028370	O	S		0.048230	O	W	<	0.005000				
M	Dy	<	0.000840	O	Mn		0.000139	M	Sb	<	0.001700	O	Y	<	0.000730				
M	Er	<	0.000840	O	Mo	<	0.004800	O	Sc	<	0.000370	O	Yb	<	0.000130				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 23 amu	310 ppt	n/a	46Ti+2 , 46Ca+2
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	Pd, Zn
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 25, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 25, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNI10
Lot Number:	P2-NI686384
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Nickel
Starting Material:	Ni Metal
Starting Material Lot#:	2277 and 2282
Starting Material Purity:	99.9992%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9979 ± 30 µg/mL

Density: 1.038 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9971 ± 54 µg/mL**
ICP Assay NIST SRM 3136 Lot Number: 120619

Assay Method #2 **9970 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **9993 ± 33 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.002606	M	Eu	<	0.001100	O	Na		0.004965	O	Se	<	0.067000	M	Zn		0.006578
M	Al	<	0.013000	O	Fe		0.018618	M	Nb	<	0.001100	O	Si		0.010923	M	Zr	<	0.001100
O	As	<	0.067000	M	Ga	<	0.001100	M	Nd	<	0.001100	M	Sm	<	0.001100				
M	Au	<	0.002100	M	Gd	<	0.001100	s	Ni	<		M	Sn	<	0.016000				
M	B	<	0.017000	M	Ge	<	0.004200	M	Os		0.002110	O	Sr	<	0.000940				
M	Ba	<	0.001100	M	Hf	<	0.001100	i	P	<		M	Ta	<	0.001100				
O	Be	<	0.000410	M	Hg		0.014895	M	Pb		0.006578	M	Tb	<	0.001100				
M	Bi	<	0.004200	M	Ho	<	0.001100	M	Pd	<	0.001100	M	Te	<	0.015000				
O	Ca		0.003351	M	In	<	0.001100	M	Pr	<	0.001100	M	Th	<	0.001100				
M	Cd		0.001365	M	Ir		0.004716	M	Pt	<	0.001100	M	Ti	<	0.004200				
M	Ce	<	0.001100	O	K		0.004716	M	Rb	<	0.001100	M	Tl	<	0.001100				
O	Co		0.017377	M	La	<	0.001100	M	Re		0.001737	M	Tm	<	0.001100				
O	Cr	<	0.006700	O	Li	<	0.000140	M	Rh	<	0.006300	M	U	<	0.001100				
M	Cs	<	0.007300	M	Lu	<	0.001100	M	Ru	<	0.019000	M	V	<	0.002100				
M	Cu		0.004096	O	Mg		0.000372	i	S	<		M	W	<	0.006300				
M	Dy	<	0.001100	O	Mn	<	0.001900	M	Sb		0.005833	O	Y	<	0.000540				
M	Er	<	0.001100	M	Mo	<	0.008400	M	Sc	<	0.002100	M	Yb	<	0.001100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69 +2 6 Ni(H2O)62+

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Ni Containing Samples (Preparation and Solution) -Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 60 amu	100 ppt	n/a	43Ca16O1H , 44Ca16O, 23Na37Cl
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	Si
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	Sb, Ta, Co
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	Cr, Re, Os, Nb, Ag, Pt, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGPB10
Lot Number:	P2-PB686383
Matrix:	0.5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Lead
Starting Material:	Lead Nitrate
Starting Material Lot#:	2299
Starting Material Purity:	99.9974%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10031 ± 30 µg/mL

Density: 1.015 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10060 ± 63 µg/mL**
ICP Assay NIST SRM 3128 Lot Number: 101026

Assay Method #2 **10048 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10007 ± 32 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.000850	M	Eu	<	0.000310	O	Na		0.005780	M	Se	<	0.004600	M	Zn		0.005440
O	Al		0.234602	O	Fe		0.023460	M	Nb	<	0.000310	O	Si		0.047600	M	Zr	<	0.000610
M	As	<	0.001900	M	Ga	<	0.000310	M	Nd	<	0.000310	M	Sm	<	0.000310				
M	Au	<	0.002200	M	Gd	<	0.004300	M	Ni	<	0.001600	M	Sn	<	0.000610				
O	B	<	0.005200	M	Ge	<	0.000610	M	Os	<	0.000310	O	Sr		0.000442				
O	Ba		0.001530	M	Hf	<	0.000310	O	P	<	0.052000	M	Ta	<	0.000310				
O	Be	<	0.000630	M	Hg	<	0.001600	s	Pb	<		M	Tb	<	0.000310				
O	Bi		0.021080	M	Ho	<	0.000610	M	Pd	<	0.000310	M	Te	<	0.004300				
O	Ca		0.037400	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.000310				
M	Cd	<	0.000610	M	Ir	<	0.000310	M	Pt	<	0.000310	M	Ti		0.002992				
M	Ce	<	0.000910	O	K		0.008840	M	Rb	<	0.000610	M	Tl		0.037400				
M	Co	<	0.000610	M	La	<	0.000610	M	Re	<	0.000310	M	Tm	<	0.000610				
M	Cr	<	0.003400	O	Li		0.000108	O	Rh	<	0.006300	M	U	<	0.000310				
M	Cs		0.002686	M	Lu	<	0.000310	M	Ru	<	0.000310	M	V	<	0.000310				
M	Cu	<	0.002500	O	Mg		0.004760	O	S	<	0.052000	M	W	<	0.002200				
M	Dy	<	0.000310	M	Mn	<	0.000310	M	Sb	<	0.001300	M	Y	<	0.000310				
M	Er	<	0.000310	O	Mo	<	0.005400	M	Sc	<	0.000310	M	Yb	<	0.000310				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.20 +2 6 $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) -Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 208 amu	5 ppt	n/a	192Pt16O, 192Os16O
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	Co
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	W, Ir, Hf, Sb, Th
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	Bi, Nb

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSB10
Lot Number:	R2-SB688559
Matrix:	3% (v/v) HNO3 3% (w/v) tartaric acid
Value / Analyte(s):	10 000 µg/mL ea: Antimony
Starting Material:	Antimony Metal
Starting Material Lot#:	1857
Starting Material Purity:	99.9894%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10003 ± 47 µg/mL

Density: 1.061 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10003 ± 41 µg/mL**
ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance:
$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2
$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2
$u_{char\ a}$ = the errors from characterization
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000300	O	Na		0.140000	M	Se	<	0.007300	O	Zn		0.005000
M	Al		0.003200	O	Fe		0.060000	M	Nb	<	0.000100	O	Si		0.150000	O	Zr	<	0.006300
M	As	<	0.004400	M	Ga	<	0.000400	M	Nd	<	0.000100	M	Sm	<	0.000100				
M	Au	<	0.000210	M	Gd	<	0.000100	O	Ni		0.004800	M	Sn	<	0.001800				
M	B	<	0.011000	M	Ge	<	0.000600	M	Os	<	0.000110	O	Sr		0.000750				
O	Ba	<	0.004900	M	Hf	<	0.000100	O	P		0.540000	M	Ta		0.003300				
M	Be	<	0.000400	M	Hg	<	0.000110	M	Pb	<	0.000400	M	Tb	<	0.000100				
M	Bi	<	0.000200	M	Ho	<	0.000100	M	Pd	<	0.000210	M	Te	<	0.000600				
O	Ca		0.110000	M	In	<	0.000100	M	Pr	<	0.001600	M	Th	<	0.000100				
M	Cd	<	0.000200	M	Ir	<	0.000110	M	Pt	<	0.000600	M	Ti	<	0.002800				
M	Ce		0.006500	O	K		0.020000	M	Rb	<	0.001000	M	Tl	<	0.000100				
M	Co	<	0.000200	O	La	<	0.016000	M	Re	<	0.000100	M	Tm	<	0.000100				
M	Cr		0.006900	O	Li	<	0.000430	M	Rh	<	0.000300	M	U	<	0.000100				
M	Cs	<	0.000200	M	Lu	<	0.000100	M	Ru	<	0.000310	M	V	<	0.000800				
M	Cu	<	0.000600	O	Mg		0.021000	n	S	<		M	W	<	0.000200				
M	Dy	<	0.000100	O	Mn		0.001900	s	Sb	<		M	Y	<	0.000100				
M	Er	<	0.000100	M	Mo	<	0.000500	O	Sc	<	0.002300	M	Yb	<	0.000100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 121.75 +3 6 Sb(O)C4H4O6-1

Chemical Compatibility -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

Sb Containing Samples (Preparation and Solution) -Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides (Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 121 amu	5 ppt	N/A	105Pd16O, 89Y16O2
ICP-OES 206.833 nm	0.03/0.003 µg/mL	1	Ta, Cr, Ge, Hf
ICP-OES 217.581 nm	0.05/0.005 µg/mL	1	Nb, W, Re, Fe
ICP-OES 231.147 nm	0.06/0.006 µg/mL	1	Ni, Co, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Christiansburg, VA 24073 · USA
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tel: 800.669.6799 · 540.585.3030
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CERTIFICATE OF ANALYSIS

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSE10
Lot Number:	P2-SE684206
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Selenium
Starting Material:	Se Metal
Starting Material Lot#:	1962
Starting Material Purity:	99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 61 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9993 ± 67 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

Assay Method #2 **9992 ± 73 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002242	M	Eu	<	0.000373	O	Na		0.013700	s	Se	<		O	Zn		0.002382
M	Al		0.004465	M	Fe		0.008506	O	Nb	<	0.002975	O	Si		0.006270	M	Zr	<	0.001868
O	As	<	0.022040	M	Ga	<	0.000373	M	Nd	<	0.000373	M	Sm	<	0.000373				
M	Au	<	0.000373	M	Gd	<	0.000373	O	Ni		0.001849	M	Sn		0.000850				
O	B	<	0.007714	M	Ge	<	0.002616	M	Os	<	0.000373	M	Sr	<	0.001121				
M	Ba	<	0.001495	M	Hf	<	0.000373	O	P	<	0.022040	M	Ta	<	0.000373				
M	Be	<	0.001495	M	Hg	<	0.002240	M	Pb		0.006379	M	Tb	<	0.006353				
M	Bi	<	0.000373	M	Ho	<	0.000373	M	Pd	<	0.000373	M	Te	<	0.012707				
O	Ca		0.006552	M	In	<	0.000373	M	Pr	<	0.001495	M	Th	<	0.002990				
M	Cd		0.001169	M	Ir	<	0.000373	M	Pt	<	0.000373	M	Ti	<	0.003363				
M	Ce	<	0.000373	O	K		0.002006	M	Rb	<	0.001868	M	Tl		0.008613				
M	Co	<	0.000373	M	La	<	0.001121	M	Re	<	0.000373	M	Tm	<	0.000373				
M	Cr		0.002870	O	Li		0.000062	M	Rh	<	0.000373	M	U	<	0.000373				
M	Cs	<	0.001121	M	Lu	<	0.000373	M	Ru	<	0.001493	M	V	<	0.000747				
M	Cu	<	0.000747	O	Mg		0.001159	O	S		0.024674	M	W	<	0.002242				
M	Dy	<	0.000373	M	Mn	<	0.000373	M	Sb	<	0.002242	M	Y	<	0.000373				
M	Er	<	0.000373	O	Mo	<	0.003195	M	Sc	<	0.001121	M	Yb	<	0.000373				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 78.96 +4 6 H_2SeO_3

Chemical Compatibility -Soluble in HCl, HNO_3,H_3PO_4, H_2SO_4 and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Se Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (readily soluble in water); Minerals and alloys (acid digestion with HNO_3or HNO_3 / HF); Organic Matrices (acid digestion with hot concentrated H_2SO_4 accompanied by the careful dropwise addition of H_2O_2 until clear).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 82 amu	200 ppt	N/A	12C35Cl2
ICP-OES 196.026 nm	0.08/0.006 µg/mL	1	Fe
ICP-OES 203.985 nm	0.2/0.05 µg/mL	1	Sb, Ir, Cr, Ta
ICP-OES 206.279 nm	0.3/0.16 µg/mL	1	Cr, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 13, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 13, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTL10
Lot Number:	R2-TL691937
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Thallium
Starting Material:	TlNO3
Starting Material Lot#:	2118
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9987 ± 49 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9968 ± 68 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **10001 ± 58 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000200	O	Na		0.002479	M	Se	<	0.011019	O	Zn		0.002288
O	Al	<	0.004184	O	Fe	<	0.002824	M	Nb	<	0.000200	O	Si		0.003744	M	Zr	<	0.000200
M	As	<	0.002003	M	Ga	<	0.000200	M	Nd	<	0.000200	M	Sm	<	0.000200				
O	Au	<	0.002824	M	Gd	<	0.000200	M	Ni		0.001717	M	Sn	<	0.000601				
O	B	<	0.004184	M	Ge	<	0.000801	M	Os	<	0.000198	O	Sr	<	0.000313				
M	Ba	<	0.000400	M	Hf	<	0.000200	O	P	<	0.010460	M	Ta	<	0.000200				
O	Be	<	0.000104	M	Hg	<	0.000794	M	Pb		0.000807	M	Tb	<	0.000200				
M	Bi	<	0.005209	M	Ho	<	0.000200	M	Pd	<	0.000400	M	Te	<	0.005008				
O	Ca		0.002426	M	In	<	0.000200	M	Pr	<	0.000200	M	Th	<	0.000200				
M	Cd		0.001312	M	Ir	<	0.000198	M	Pt	<	0.000801	O	Ti	<	0.001255				
M	Ce	<	0.000200	O	K		0.006150	M	Rb	<	0.000200	s	Tl	<					
M	Co	<	0.000601	M	La	<	0.000200	M	Re	<	0.000200	M	Tm	<	0.000200				
M	Cr	<	0.000801	O	Li	<	0.000177	M	Rh	<	0.000200	M	U	<	0.000200				
M	Cs	<	0.003606	M	Lu	<	0.000200	M	Ru	<	0.000397	M	V	<	0.002203				
M	Cu	<	0.001001	O	Mg		0.000527	O	S	<	0.015690	M	W	<	0.000601				
M	Dy	<	0.000200	M	Mn	<	0.000801	M	Sb	<	0.000400	M	Y	<	0.000200				
M	Er	<	0.000200	M	Mo	<	0.001202	O	Sc	<	0.000711	M	Yb	<	0.000200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 204.38 +1 6 Tl(H2O)61+

Chemical Compatibility - Soluble in HCl, HNO3, and H2SO4. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Tl Containing Samples (Preparation and Solution) -Metal (Best dissolved in HNO3 which forms chiefly the Tl1+ ion.); Oxide (The thallous oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 205 amu	2 ppt	N/A	189Os16O
ICP-OES 190.864 nm	0.04 / 0.004 µg/mL	1	V, Ti
ICP-OES 276.787 nm	0.1 / 0.01 µg/mL	1	Ta, V, Fe, Cr
ICP-OES 351.924 nm	0.2 / 0.02 µg/mL	1	Th, Ce, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 08, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 08, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV10
Lot Number:	R2-V688296
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Vanadium
Starting Material:	Vanadium pentoxide
Starting Material Lot#:	1782
Starting Material Purity:	99.9907%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10026 ± 30 µg/mL

Density: 1.105 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10025 ± 56 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **10027 ± 30 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000510	M	Eu	<	0.000110	M	Na		0.095000	M	Se	<	0.002300	M	Zn		0.008900
O	Al		0.051000	O	Fe		0.350000	M	Nb	<	0.000710	O	Si		0.260000	M	Zr	<	0.002500
M	As	<	0.000410	M	Ga	<	0.007100	M	Nd	<	0.000210	M	Sm	<	0.000110				
M	Au	<	0.000410	M	Gd	<	0.000110	M	Ni		0.011000	M	Sn	<	0.003300				
M	B	<	0.006000	M	Ge	<	0.000110	M	Os	<	0.000410	M	Sr		0.001400				
M	Ba		0.001800	M	Hf	<	0.000110	O	P	<	0.120000	M	Ta	<	0.000110				
M	Be	<	0.000110	M	Hg	<	0.000310	M	Pb	<	0.002300	M	Tb	<	0.000110				
M	Bi	<	0.000610	M	Ho	<	0.000110	M	Pd	<	0.000610	M	Te	<	0.000610				
M	Ca		0.180000	M	In	<	0.000110	M	Pr	<	0.000110	M	Th	<	0.000210				
M	Cd	<	0.000410	M	Ir	<	0.000110	M	Pt	<	0.000410	M	Ti	<	0.021000				
M	Ce	<	0.000310	M	K		0.400000	M	Rb	<	0.000410	M	Tl	<	0.000110				
M	Co	<	0.001100	M	La	<	0.000110	M	Re	<	0.000110	M	Tm	<	0.000110				
O	Cr		0.190000	M	Li	<	0.001400	M	Rh	<	0.000110	M	U	<	0.000310				
M	Cs		0.005700	M	Lu	<	0.000110	M	Ru	<	0.000410	s	V	<					
M	Cu	<	0.001800	M	Mg		0.009200	n	S	<		M	W	<	0.003100				
M	Dy	<	0.000110	M	Mn		0.008700	M	Sb		0.076000	M	Y	<	0.000110				
M	Er	<	0.000110	M	Mo		0.086000	M	Sc	<	0.000310	M	Yb	<	0.000110				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 $H_2V_{10}O_{28}^{4-}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4, HF, H_3PO_4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na_2CO_3 / KNO_3); Oxides (V_2O_3 - use HCl, V_2O_4 - use HCl or HNO_3, V_2O_5 - use concentrated acids); Ores (Na_2CO_3 / KNO_3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V_2O_5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 01, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 01, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGZN10
Lot Number:	P2-ZN686137
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Zinc
Starting Material:	Zn Shot
Starting Material Lot#:	2201
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10040 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10009 ± 54 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 120629

Assay Method #2 **10049 ± 33 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10041 ± 28 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.003057	M	Eu	<	0.000509	O	Na		0.001874	M	Se	<	0.023441	s	Zn	<	
O	Al	<	0.005720	O	Fe		0.006348	M	Nb	<	0.000509	O	Si	<	0.057200	M	Zr	<	0.000509
M	As	<	0.003057	M	Ga	<	0.007134	M	Nd	<	0.000509	M	Sm	<	0.000509				
M	Au	<	0.000510	M	Gd	<	0.000509	M	Ni	<	0.000509	M	Sn	<	0.000509				
O	B	<	0.017160	M	Ge	<	0.003057	M	Os	<	0.000510	M	Sr	<	0.000509				
M	Ba	<	0.000509	M	Hf	<	0.000509	O	P	<	0.057200	M	Ta	<	0.000509				
M	Be	<	0.000509	M	Hg	<	0.001021	O	Pb		0.023870	M	Tb	<	0.000509				
M	Bi	<	0.005095	M	Ho	<	0.000509	M	Pd	<	0.002038	M	Te	<	0.023441				
O	Ca		0.033793	M	In	<	0.000509	M	Pr	<	0.000509	M	Th	<	0.000509				
O	Cd		0.003924	M	Ir	<	0.000510	M	Pt	<	0.000509	M	Ti	<	0.000509				
M	Ce	<	0.000509	O	K		0.001499	M	Rb	<	0.002038	M	Tl	<	0.009172				
M	Co	<	0.000509	M	La	<	0.000509	M	Re	<	0.000509	M	Tm	<	0.000509				
O	Cr		0.001549	O	Li	<	0.000457	M	Rh	<	0.000509	M	U	<	0.000509				
M	Cs	<	0.000509	M	Lu	<	0.000509	M	Ru	<	0.006129	M	V	<	0.000509				
O	Cu	<	0.010296	O	Mg		0.000349	O	S	<	0.034320	M	W	<	0.001019				
M	Dy	<	0.000509	M	Mn	<	0.000509	M	Sb	<	0.001019	M	Y	<	0.000509				
M	Er	<	0.000509	M	Mo	<	0.000509	M	Sc	<	0.000509	M	Yb	<	0.000509				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39 +2 4 Zn(OH)(aq)1+

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Zn Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 66 amu	7 ppt	N/A	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2
ICP-OES 202.548 nm	0.004/0.0002 µg/mL	1	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006/0.0006 µg/mL	1	Sb, Ta, Bi, Os
ICP-OES 213.856 nm	0.002/0.0004 µg/mL	1	Ni, Cu, V

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 05, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 05, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-AAM131-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-01 A	SDG:	22E0328
Sampled:	05/05/22 09:25	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-142
% Solids:	0.00	Preparation:	REN EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 03:36
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	0.0970	1	0.0373	0.200	J
7440-50-8	Copper	12.0	1	0.173	0.500	
7440-66-6	Zinc	106	1	0.940	6.00	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-AAM131-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-01 A	SDG:	22E0328
Sampled:	05/05/22 09:25	Prepared:	06/01/22 12:08	File ID:	XDT_m2220602-063
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 20:18
Batch:	BKF0020	Sequence:	SKF0040	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS2			Calibration:	FF00014

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	0.0500	1	0.0300	0.100	J

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-AAQ005-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-02 A	SDG:	22E0328
Sampled:	05/05/22 08:45	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-143
% Solids:	0.00	Preparation:	REN EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 03:41
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	0.160	1	0.0373	0.200	J
7440-50-8	Copper	6.91	1	0.173	0.500	
7440-66-6	Zinc	64.6	1	2.92	6.00	

Analytical Resources, LLC
Analytical Chemists and Consultants

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INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-AAQ005-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-02 A	SDG:	22E0328
Sampled:	05/05/22 08:45	Prepared:	06/01/22 12:08	File ID:	XDT_m2220602-064
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 20:23
Batch:	BKF0020	Sequence:	SKF0040	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS2			Calibration:	FF00014

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	0.0630	1	0.0300	0.100	J

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Analytical Chemists and Consultants

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EPA 6020B UCT-KED

Total Metals

SIB-SW-AAM169-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-03 A	SDG:	22E0328
Sampled:	05/05/22 14:38	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-144
% Solids:	0.00	Preparation:	REN EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 03:46
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	0.402	1	0.0373	0.200	
7440-50-8	Copper	3.91	1	0.173	0.500	
7440-66-6	Zinc	35.6	1	2.92	6.00	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-AAM169-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-03 A	SDG:	22E0328
Sampled:	05/05/22 14:38	Prepared:	06/01/22 12:08	File ID:	XDT_m2220602-065
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 20:28
Batch:	BKF0020	Sequence:	SKF0040	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS2			Calibration:	FF00014

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	<0.0300	1	0.0300	0.100	U

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Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-AAM107-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-04 C	SDG:	22E0328
Sampled:	05/05/22 15:18	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-145
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 03:51
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	0.513	1	0.0373	0.200	
7440-50-8	Copper	3.47	1	0.173	0.500	
7440-66-6	Zinc	23.5	1	2.92	6.00	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-AAM107-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-04 C	SDG:	22E0328
Sampled:	05/05/22 15:18	Prepared:	06/01/22 12:08	File ID:	XDT_m2220602-066
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 20:33
Batch:	BKF0020	Sequence:	SKF0040	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS2			Calibration:	FF00014

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	<0.0300	1	0.0300	0.100	U

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-AAP957-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-05 A	SDG:	22E0328
Sampled:	05/05/22 16:40	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-146
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 03:56
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	0.178	1	0.0373	0.200	J
7440-50-8	Copper	5.88	1	0.173	0.500	
7440-66-6	Zinc	53.5	1	2.92	6.00	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-AAP957-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-05 A	SDG:	22E0328
Sampled:	05/05/22 16:40	Prepared:	06/01/22 12:08	File ID:	XDT_m2220602-067
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 20:38
Batch:	BKF0020	Sequence:	SKF0040	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS2			Calibration:	FF00014

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	0.0450	1	0.0300	0.100	J

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED
Total Metals

SIB-SW-WR198-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-06 A	SDG:	22E0328
Sampled:	05/05/22 08:40	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-147
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 04:01
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	0.0980	1	0.0373	0.200	J
7440-50-8	Copper	123	1	0.173	0.500	
7440-66-6	Zinc	153	1	0.940	6.00	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-WR198-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-06 A	SDG:	22E0328
Sampled:	05/05/22 08:40	Prepared:	06/01/22 12:08	File ID:	XDT_m2220602-068
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 20:43
Batch:	BKF0020	Sequence:	SKF0040	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS2			Calibration:	FF00014

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	0.0420	1	0.0300	0.100	J

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-WR186-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-07 A	SDG:	22E0328
Sampled:	05/05/22 09:12	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-148
% Solids:	0.00	Preparation:	REN EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 04:06
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	0.674	1	0.0373	0.200	
7440-50-8	Copper	16.5	1	0.173	0.500	

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INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-WR186-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-07 A	SDG:	22E0328
Sampled:	05/05/22 09:12	Prepared:	06/01/22 12:08	File ID:	XDT_m2220602-059
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 19:56
Batch:	BKF0020	Sequence:	SKF0040	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS2			Calibration:	FF00014

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	3.05	2	0.0600	0.200	D
7440-66-6	Zinc	239	2	1.88	12.0	D

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED
Total Metals

SIB-SW-WR15-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-08 A	SDG:	22E0328
Sampled:	05/05/22 09:25	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-149
% Solids:	0.00	Preparation:	REN EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 04:11
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	0.174	1	0.0373	0.200	J
7440-50-8	Copper	3.55	1	0.173	0.500	
7440-66-6	Zinc	45.6	1	2.92	6.00	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-WR15-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-08 A	SDG:	22E0328
Sampled:	05/05/22 09:25	Prepared:	06/01/22 12:08	File ID:	XDT_m2220602-069
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 20:48
Batch:	BKF0020	Sequence:	SKF0040	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS2			Calibration:	FF00014

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	0.0400	1	0.0300	0.100	J

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-WR428-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-09 A	SDG:	22E0328
Sampled:	05/05/22 07:00	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-150
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 04:17
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	0.358	1	0.0373	0.200	
7440-50-8	Copper	2.53	1	0.173	0.500	
7440-66-6	Zinc	39.2	1	2.92	6.00	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-WR428-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-09 A	SDG:	22E0328
Sampled:	05/05/22 07:00	Prepared:	06/01/22 12:08	File ID:	XDT_m2220602-070
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 20:53
Batch:	BKF0020	Sequence:	SKF0040	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS2			Calibration:	FF00014

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	<0.0300	1	0.0300	0.100	U

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED
Total Metals

SIB-SW-WR71-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-10 A	SDG:	22E0328
Sampled:	05/05/22 00:00	Prepared:	06/01/22 12:08	File ID:	XDT_m1220601-154
% Solids:	0.00	Preparation:	REN EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 04:41
Batch:	BKF0020	Sequence:	SKF0017	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS1			Calibration:	FF00009

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	0.213	1	0.0373	0.200	
7440-50-8	Copper	3.67	1	0.173	0.500	
7440-66-6	Zinc	25.6	1	2.92	6.00	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

SIB-SW-WR71-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-10 A	SDG:	22E0328
Sampled:	05/05/22 00:00	Prepared:	06/01/22 12:08	File ID:	XDT_m2220602-071
% Solids:	0.00	Preparation:	REN_EPA 600/4-79-020 4.1.4 HNO3 matrix	Analyzed:	06/02/22 20:57
Batch:	BKF0020	Sequence:	SKF0040	Initial/Final:	25 mL / 25 mL
Instrument:	ICPMS2			Calibration:	FF00014

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	0.0310	1	0.0300	0.100	J

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PREPARATION BATCH SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC SDG: 22E0328

Client: HydroGeoLogic, Inc. Project: Portland Harbor Superfund Site 2021-2022

Batch: BKF0020 Batch Matrix: Water Preparation: REN EPA 600/4-79-020 4.1.4 HNO3 matrix

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SIB-SW-AAM131-CAR-ST-050522	22E0328-01	XDT_m1220601-142	06/01/22 12:08	Waters
SIB-SW-AAM131-CAR-ST-050522	22E0328-01	XDT_m2220602-063	06/01/22 12:08	Waters
SIB-SW-AAQ005-CAR-ST-050522	22E0328-02	XDT_m2220602-064	06/01/22 12:08	Waters
SIB-SW-AAQ005-CAR-ST-050522	22E0328-02	XDT_m1220601-143	06/01/22 12:08	Waters
SIB-SW-AAM169-CAR-ST-050522	22E0328-03	XDT_m2220602-065	06/01/22 12:08	Waters
SIB-SW-AAM169-CAR-ST-050522	22E0328-03	XDT_m1220601-144	06/01/22 12:08	Waters
SIB-SW-AAM107-CAR-ST-050522	22E0328-04	XDT_m1220601-145	06/01/22 12:08	Waters
SIB-SW-AAM107-CAR-ST-050522	22E0328-04	XDT_m2220602-066	06/01/22 12:08	Waters
SIB-SW-AAP957-CAR-ST-050522	22E0328-05	XDT_m2220602-067	06/01/22 12:08	Waters
SIB-SW-AAP957-CAR-ST-050522	22E0328-05	XDT_m1220601-146	06/01/22 12:08	Waters
SIB-SW-WR198-050522	22E0328-06	XDT_m2220602-068	06/01/22 12:08	Waters
SIB-SW-WR198-050522	22E0328-06	XDT_m1220601-147	06/01/22 12:08	Waters
SIB-SW-WR186-050522	22E0328-07	XDT_m1220601-148	06/01/22 12:08	Waters
SIB-SW-WR186-050522	22E0328-07	XDT_m2220602-059	06/01/22 12:08	Waters
SIB-SW-WR15-050522	22E0328-08	XDT_m1220601-149	06/01/22 12:08	Waters
SIB-SW-WR15-050522	22E0328-08	XDT_m2220602-069	06/01/22 12:08	Waters
SIB-SW-WR428-050522	22E0328-09	XDT_m1220601-150	06/01/22 12:08	Waters
SIB-SW-WR428-050522	22E0328-09	XDT_m2220602-070	06/01/22 12:08	Waters
SIB-SW-WR71-050522	22E0328-10	XDT_m2220602-071	06/01/22 12:08	Waters
SIB-SW-WR71-050522	22E0328-10	XDT_m1220601-154	06/01/22 12:08	Waters
Blank	BKF0020-BLK1	XDT_m1220601-028	06/01/22 12:08	
LCS	BKF0020-BS1	XDT_m1220601-029	06/01/22 12:08	

Analytical Resources, LLC
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Form I

METHOD BLANK DATA SHEET

EPA 6020B UCT-KED

Total Metals

Blank

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021·
Batch: BKF0020
Laboratory ID: BKF0020-BLK1
Prepared: 06/01/22 12:08
Matrix: Water
Preparation: REN_EPA 600/4-79-020 4
Analyzed: 06/01/22 16:44
Sequence: SKF0017
Calibration: FF00009
Instrument: ICPMS1

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic-75a	ND	1	0.0373	0.200	U
7440-43-9	Cadmium-111	ND	1	0.0300	0.100	U
7440-43-9	Cadmium-114	ND	1	0.0400	0.100	U
7440-50-8	Copper-63	ND	1	0.173	0.500	U
7440-50-8	Copper-65	ND	1	0.350	0.500	U
7440-66-6	Zinc-66	ND	1	2.92	6.00	U
7440-66-6	Zinc-67	ND	1	0.940	6.00	U

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LCS / LCS DUPLICATE RECOVERY

EPA 6020B UCT-KED

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Matrix:	Water	Analyzed:	06/01/22 16:49
Batch:	BKF0020	Laboratory ID:	BKF0020-BS1
Preparation:	REN EPA 600/4-79-020 4.1.4 HNO3 matrix	Sequence Name:	LCS
Initial/Final:	25 mL / 25 mL		

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	Q	LCS % REC. #	QC LIMITS REC.
Arsenic-75a	25.0	25.1		101	80 - 120
Cadmium-111	25.0	26.3		105	80 - 120
Cadmium-114	25.0	26.7		107	80 - 120
Copper-63	25.0	26.8		107	80 - 120
Copper-65	25.0	26.8		107	80 - 120
Zinc-66	80.0	85.0		106	80 - 120
Zinc-67	80.0	81.1		101	80 - 120

* Indicates values outside of QC limits

Analytical Resources, LLC
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INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Calibration:	FF00009	Instrument:	ICPMS1
Calibration Date:	06/01/2022 14:24		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	330	10	329.8	20	333.1	50	325.82	100	322.87
Cadmium-111	0	0	0.1	380	10	394.5	20	383.4	50	375.52	100	370.5
Cadmium-114	0	0	0.1	1170	10	1008.9	20	997.65	50	975.1	100	956.28
Copper-63	0	0	0.5	5048	10	4894.7	20	4971.2	50	4727.16	100	4597.22
Copper-65	0	0	0.5	2510	10	2508.8	20	2484.5	50	2390.4	100	2317.84
Zinc-66	0	0	6	718.8333	10	719.7	20	728.3	50	696.82	100	666.13
Zinc-67	0	0	6	110.3333	10	117.7	20	122.4	50	114.62	100	109.59

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INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Calibration:	FF00009	Instrument:	ICPMS1
Calibration Date:	06/01/2022 14:24		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	273.5983	49.0	1.0000		0.998	
Cadmium-111	317.32	49.1	0.9999		0.998	
Cadmium-114	851.3217	49.8	0.9999		0.998	
Copper-63	4039.713	49.2	0.9996		0.998	
Copper-65	2035.257	49.1	0.9996		0.998	
Zinc-66	588.2972	49.1	0.9994		0.998	
Zinc-67	95.77389	49.2	0.9991		0.998	

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 6/1/22 **Analyst:** MB **Sequence:** SKFØØ17 **Cal:** FFØØØØ9

All corrections made by analyst unless otherwise noted. MB 6/1/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	K511Ø		
		-CAL2	K4918		
		-CAL3	K4919		
		-CAL4	K492Ø		
		-CAL5	K5111		
		-CAL6	K4921		
		-IBL1	—		
		-ICV1	K3Ø2Ø		
		-ICB1	K511Ø		
		-CCV1	K5111		
		-CCB1	K511Ø		
	✓	-CRL1	—		Zn↑
		-CRL1	K4918		
		-IFA1	K4536		V-1, Cr53↑
		-IFB1	K4864		↓
		-HCV1	K4841		X
		-HCV2	K4537		Ba↑ - Ba < 200
		-IBL2&3	—		
		-CCV2			
		-CCB2			
		BKFØØ2Ø-BLK1	REN		
		↓ -BS1	↓		
		22EØ43Ø-Ø1	↓		(BKF20 QC source)
		22EØ428-Ø1	↓	5	Zn↑ Zn NR

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 6/1/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 6/1/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22EΦ428-Φ2	REN	5	
		-Φ3			
		-Φ4			
		22EΦ439-Φ1			
		22EΦ443-Φ1		2	
		22EΦ428-Φ1RE1		20	Zn only
		SEQ-CCV3			
		-CCB3			
		BKEΦ787-BLK~~Φ~~2	REN		Ag only
		-DS2			
		BKFΦΦ2Φ-DUP1			(Source: E430-1)
		-MS1			
		-MSD1			
		22EΦ424-Φ1			
		22EΦ261-Φ1		50	Ag only
		22EΦ4Φ7-Φ1		20	Ag, Cr only
		SEQ-IBL4+5			
		-CCV4			
		-CCB4			
		BKEΦ483-PS1	SWN	20	57330 60mL Ag only
		22EΦ237-Φ1			Ag, Cr only
		-Φ2			
		-Φ3			
		-Φ4			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 6/1/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22E0237-05	SWN	20	Ag Cr only
		-06			
		-07			
		-09			
		SEQ-IBL6			
		-CCV5			
		-CCB5			
	✓	-CAL1			
		-CCV6			
		-CCB6			
		BKE0677-BLK1	SWN	20	
		-BS1			
		22E0245-01			
		-02			
		-04			
		-05			
		-06			
		-07			
		-08			
		SEQ-IBL7			
		-CCV7			
		-CCB7			
		22E0245-09	SWN	20	
		-10			In^{-1} ↓/In^{-1} noisy No Cd

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 6/1/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22EΦ245-11	SWN	20	Ni 62 sl no. 3y- Isotopes match
		-13			
		-14			
		-16			
		BKEΦ677-DUP1			
		-MS1			56%R↓
		-MSD1			
		SEQ-IBL8			
		-CCV8			
		-CCB8			
		BKEΦ771-BLK1	SWN	20	
		-BS1			
		22EΦ234-Φ1			
		-Φ2			
		-Φ3			
		-Φ4			
		22EΦ245-Φ3			
		-12			
		-15			
		SEQ-IBL9			
		-CCV9			
		-CCB9			
		22EΦ234-Φ5	SWN	20	
		-Φ6			

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: ~~6/2/22~~ 6/1/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 6/1/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22EØ234-Ø7	SWN	20	
		-1Ø			
		BKEØ774-DUP1			
		-MS1			Inst no-By-%R + Analytes OK
		-MSD1			
	✓	-PS1			60 mL J7334 - Not Needed
		-SRM1		100	
		SEQ-IBLA			
		-CCVA			
		-CCBA			
		BKFØØ22-BLK2	REN		As, Pb, Sb, V only
		-BS2			
		BKFØØ1Ø-BLK1	SWN	20	
		-BS1			
		22EØ234-Ø8			
		-Ø9			
		-11			
		-12			
		-13			
		-14			
		SEQ-CCVB			
		-CCBB			
		22EØ311-Ø1	REN	2	In-1 - Not Needed; As, V only
		-Ø2			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: ~~6/2/22~~ 6/1/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 6/1/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22EΦ311-Φ3	REN	2	✓ only
		↓ -Φ4	↓	↓	
		22EΦ295-Φ1	SWN	20	
		BKFΦΦ1Φ-DUP1			Int noisy-Poor Analytes OK/Match Parent
		-MS1			
		-MSD1			
	✓	↓ -PS1	↓	↓	60 mL J7330 - Not Needed
		SEQ-IBLB			
		-CCVC			
		-CCBC			
	✓	-CAL1			
		-CCVD			
		↓ -CCBD			
		22EΦ328-Φ1	REN		No Cd
		-Φ2			
		-Φ3			
		-Φ4			
		-Φ5			
		-Φ6			
		-Φ7			Zn 66↑ No Cd, Zn
		-Φ8			No Cd
		↓ -Φ9	↓		↓
		SEQ-IBLC			
		↓ -CCVE			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 6/1/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBE			Cd↑/Cd noisy
		22EØ328-1Ø	REN		No Cd
		SEQ-IBLD			
		22EØ3Ø6-Ø6	REN		As, Mn only
		-Ø8			As only
		-26			
		-3Ø			
		-1Ø			
		-22			
		-24			
		SEQ-IBLE			
		-CCVF			
		-CCBF			
		22EØ3Ø6-28	REN		As only
		-Ø2			
		-2Ø			
		-18			Sc↑ - Not Needed
		SEQ-IBLF			
		22EØ3Ø6-32	REN		As only
		-Ø4			Sc↑ As, Pb, Sb only
		BKFØØ22-DUP3			
		-MS3			
		SEQ-IBLG			
		-CCVG			
		-CCBG			

Rinse/DI

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, June 01, 2022 13:36:52
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.13250
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	8571.0	8570.971	89.316	1.0	Standard
	In	114.9	160354.0	-1830954.089	1083.110	0.1	Standard
	U	238.1	205334.6	205334.601	2063.282	1.0	Standard
⌈	CeO	155.9	4014.6	0.030	0.000	1.6	Standard
| >	Ce	139.9	134312.6	134312.575	141.059	0.1	Standard
⌊	Ce++	70.0	2274.6	0.017	0.000	1.7	Standard
	Bkgd	220.0	6.7	6.667	3.482	52.2	Standard

Current Conditions File Data

Current Value	Description
0.91	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1562.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-16.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-2.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.91	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
1.00	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, June 01, 2022 13:45:17
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.13256
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	6910.7	6910.738	109.822	1.6	Standard
	In	114.9	137107.8	137107.810	313.179	0.2	Standard
	U	238.1	181890.8	181890.848	929.774	0.5	Standard
⌈	CeO	155.9	2593.9	0.022	0.000	1.7	Standard
| >	Ce	139.9	119474.4	119474.401	847.509	0.7	Standard
⌊	Ce++	70.0	1494.6	0.013	0.000	1.0	Standard
	Bkgd	220.0	1.8	1.800	0.506	28.1	Standard

Current Conditions File Data

Current Value	Description
0.90	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1562.00	Analog Stage Voltage
1200.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-16.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-2.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
1.00	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 6/1/2022 1:36:43 PM
End Time: 6/1/2022 1:47:21 PM

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 8570.97
Obtained Intensity (In 115): 160354.05
Obtained Intensity (U 238): 205334.60
Obtained Intensity (Bkgd 220): 6.67 - <Target not achieved>
Obtained Formula (Ce++ 70 / Ce 140): 0.017 (=2274.58 / 134312.57)
Obtained Formula (CeO 156 / Ce 140): 0.030 (=4014.56 / 134312.57) - <Target not achieved>
Obtained RSD (Be 9): 0.0104
Obtained RSD (In 115): 0.0006
Obtained RSD (U 238): 0.0100

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
1.42 mm	-0.73 mm	160357.99

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.9
Obtained Intensity (In 115): 139143.35
Obtained Formula (CeO 156 / Ce 140): 0.0206 (=2522.22 / 122313.39)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/6.975), Target/Obtained resolution (0.7/0.704)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.707)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.689)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.714)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -14.45

KED Mode QID - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -14.73

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 6910.74
Obtained Intensity (In 115): 137107.81
Obtained Intensity (U 238): 181890.85
Obtained Intensity (Bkgd 220): 1.80
Obtained Formula (Ce++ 70 / Ce 140): 0.013 (=1494.61 / 119474.40)
Obtained Formula (CeO 156 / Ce 140): 0.022 (=2593.90 / 119474.40)
Obtained RSD (Be 9): 0.0159
Obtained RSD (In 115): 0.0023
Obtained RSD (U 238): 0.0051

SmartTune Wizard - Details

```
Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 6/1/2022 1:36:43 PM

STD Performance Check
        Optimization Settings:
                Method: STD Performance Check.mth.
                Intensity Criterion: Be 9 > 2000
                Intensity Criterion: In 115 > 40000
                Intensity Criterion: U 238 > 30000
                Intensity Criterion: Bkgd 220 <= 5
                Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
                Formula Criterion: CeO 156 / Ce 140 <= 0.025
                RSD Criterion: Be 9.0122 < 0.05
                RSD Criterion: In 114.904 < 0.05
                RSD Criterion: U 238.05 < 0.05

        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 8570.97
                Obtained Intensity (In 115): 160354.05
                Obtained Intensity (U 238): 205334.60
                Obtained Intensity (Bkgd 220): 6.67 - <Target not achieved>
                Obtained Formula (Ce++ 70 / Ce 140): 0.017 (=2274.58 / 134312.57)
                Obtained Formula (CeO 156 / Ce 140): 0.030 (=4014.56 / 134312.57) - <Target not achieved>
                Obtained RSD (Be 9): 0.0104
                Obtained RSD (In 115): 0.0006
                Obtained RSD (U 238): 0.0100

                [Failed]
[Failed]

Torch Alignment
        Optimization Settings:
                Method: Torch Alignment.mth.
                Intensity Criterion: In 115 Maximum

        Optimization Results:
                Vertical      Horizontal      Intensity
[Passed]        1.42 mm     -0.73 mm       160357.99

Nebulizer Gas Flow STD/KED [NEB]
        Optimization Settings:
                Method: Optimize.mth.
                        Initial Try - Start/End/Step: 0.88/0.92/0.01.
                Intensity Criterion: In 115 Maximum
                Formula Criterion: CeO 156 / Ce 140 <= 0.0245

        Optimization Results:
        Initial Try

                Obtained Intensity (In 115): 139143.35
                Obtained Formula (CeO 156 / Ce 140): 0.0206 (=2522.22 / 122313.39)
[Passed]  Optimum value(s): 0.9
```

Mass Calibration and Resolution

Optimization Settings:

Method: Tuning.mth.

MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Iterations: 6

Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution

Peak height (%) for Res. Opt.: 10

Optimization Results:

Initial Try

Target/Obtained mass (7.016/6.975), Target/Obtained resolution (0.7/0.704)

Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.707)

Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.689)

Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.714)

[Passed] Optimum value(s): N/A

QID STD/DRC

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 1.000; Intercept = -14.45

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-14.5	25711.1
Mg	24	41	-14.5	43919.4
In	115	41	-12.5	145125
Ce	140	41	-11.5	124315
Pb	208	41	-9.5	93730.5
U	238	41	-9.5	184297

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 1.000; Intercept = -14.73

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-14.5	22629.9
Mg	24	41	-14	47811.9
In	115	41	-11.5	128007
Ce	140	41	-11	126978
Pb	208	41	-10	60439.6
U	238	41	-10	129153

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.

Intensity Criterion: Be 9 > 2000

```
        Intensity Criterion: In 115 > 40000
        Intensity Criterion: U 238 > 30000
        Intensity Criterion: Bkgd 220 <= 5
        Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
        Formula Criterion: CeO 156 / Ce 140 <= 0.025
        RSD Criterion: Be 9.0122 < 0.05
        RSD Criterion: In 114.904 < 0.05
        RSD Criterion: U 238.05 < 0.05

    Optimization Results:
    Initial Try
        Obtained Intensity (Be 9): 6910.74
        Obtained Intensity (In 115): 137107.81
        Obtained Intensity (U 238): 181890.85
        Obtained Intensity (Bkgd 220): 1.80
        Obtained Formula (Ce++ 70 / Ce 140): 0.013 (=1494.61 / 119474.40)
        Obtained Formula (CeO 156 / Ce 140): 0.022 (=2593.90 / 119474.40)
        Obtained RSD (Be 9): 0.0159
        Obtained RSD (In 115): 0.0023
        Obtained RSD (U 238): 0.0051

[Passed]  Optimum value(s): N/A

End Time: 6/1/2022 1:47:21 PM
```

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 14:24:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L				1184297	1	Standard
	Be	**9**		ug/L				6	68	Standard
	C	**13**		ug/L				33459	2	Standard
	Cl	**37**		ug/L				8651601	0	Standard
>	**Sc**	**45**		ug/L				1570082	0	Standard
	V	**51**		ug/L				8248	2	Standard
	V-1	**51**		ug/L				224	7	Standard
	Cr	**52**		ug/L				24127	1	Standard
	Cr	**53**		ug/L				160	6	Standard
	Mn	**55**		ug/L				777	4	Standard
>	**Ge**	**72**		ug/L				104575	0	KED
	Ni	**60**		ug/L				14	27	KED
	Ni	**62**		ug/L				4	89	KED
	Cu	**63**		ug/L				101	9	KED
	Cu	**65**		ug/L				59	34	KED
	Zn	**66**		ug/L				59	21	KED
	Zn	**67**		ug/L				13	61	KED
	As	**75**		ug/L				3	37	KED
	Se	**78**		ug/L				11	28	KED
	Y	**89**		ug/L				967000	0	Standard
	Kr	**83**		ug/L				64	32	Standard
>	**In-1**	**115**		ug/L				29935	0	KED
	Cd	**111**		ug/L				2	57	KED
	Cd	**114**		ug/L				1	102	KED
>	**In**	**115**		ug/L				1886335	1	Standard
	Ag	**107**		ug/L				64	13	Standard
	Sb	**121**		ug/L				64	19	Standard
	Sb	**123**		ug/L				54	16	Standard
	Ba	**135**		ug/L				46	10	Standard
	Ba	**137**		ug/L				88	14	Standard
>	**Tb**	**159**		ug/L				2858511	0	Standard
	Tl	**205**		ug/L				73	24	Standard
	Pb	**208**		ug/L				373	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 14:29:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1178737	1	Standard
	Be	**9**	**0.200**	ug/L	0.005	2	6	1116	0	Standard
	C	**13**		ug/L			33459	34135	0	Standard
	Cl	**37**		ug/L			8651601	8559996	0	Standard
>	**Sc**	**45**		ug/L			1570082	1565494	0	Standard
	V	**51**	**0.200**	ug/L	0.009	4	8248	13945	1	Standard
	V-1	**51**	**0.200**	ug/L	0.004	1	224	6053	1	Standard
	Cr	**52**	**0.500**	ug/L	0.018	3	24127	36594	1	Standard
	Cr	**53**	**0.500**	ug/L	0.010	2	160	1611	2	Standard
	Mn	**55**	**0.500**	ug/L	0.012	2	777	20343	1	Standard
>	**Ge**	**72**		ug/L			104575	103104	2	KED
	Ni	**60**	**0.500**	ug/L	0.021	4	14	810	2	KED
	Ni	**62**	**0.500**	ug/L	0.062	12	4	133	10	KED
	Cu	**63**	**0.500**	ug/L	0.007	1	101	2524	3	KED
	Cu	**65**	**0.500**	ug/L	0.012	2	59	1255	0	KED
	Zn	**66**	**6.000**	ug/L	0.017	0	59	4313	1	KED
	Zn	**67**	**6.000**	ug/L	0.352	5	13	662	4	KED
	As	**75**	**0.200**	ug/L	0.005	2	3	66	3	KED
	Se	**78**	**0.500**	ug/L	0.021	4	11	31	1	KED
	Y	**89**		ug/L			967000	967661	1	Standard
	Kr	**83**		ug/L			64	67	28	Standard
>	**In-1**	**115**		ug/L			29935	28500	0	KED
	Cd	**111**	**0.100**	ug/L	0.011	11	2	38	10	KED
	Cd	**114**	**0.100**	ug/L	0.013	12	1	117	12	KED
>	**In**	**115**		ug/L			1886335	1896861	0	Standard
	Ag	**107**	**0.200**	ug/L	0.006	2	64	5038	3	Standard
	Sb	**121**	**0.200**	ug/L	0.005	2	64	5141	2	Standard
	Sb	**123**	**0.200**	ug/L	0.002	1	54	3874	0	Standard
	Ba	**135**	**0.500**	ug/L	0.012	2	46	3254	1	Standard
	Ba	**137**	**0.500**	ug/L	0.008	1	88	5501	1	Standard
>	**Tb**	**159**		ug/L			2858511	2906364	0	Standard
	Tl	**205**	**0.200**	ug/L	0.002	0	73	17730	0	Standard
	Pb	**208**	**0.100**	ug/L	0.001	0	373	13014	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 14:34:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1178471	2	Standard
	Be	**9**	**10.000**	ug/L	0.168	1	6	56809	0	Standard
	C	**13**		ug/L			33459	50524	1	Standard
	Cl	**37**		ug/L			8651601	8694876	0	Standard
>	**Sc**	**45**		ug/L			1570082	1545728	1	Standard
	V	**51**	**10.000**	ug/L	0.110	1	8248	302054	1	Standard
	V-1	**51**	**10.000**	ug/L	0.088	0	224	296997	1	Standard
	Cr	**52**	**10.001**	ug/L	0.140	1	24127	278337	0	Standard
	Cr	**53**	**10.001**	ug/L	0.127	1	160	29834	1	Standard
	Mn	**55**	**10.001**	ug/L	0.186	1	777	399016	0	Standard
>	**Ge**	**72**		ug/L			104575	103951	0	KED
	Ni	**60**	**10.001**	ug/L	0.025	0	14	16698	0	KED
	Ni	**62**	**10.001**	ug/L	0.379	3	4	2751	4	KED
	Cu	**63**	**10.000**	ug/L	0.086	0	101	48947	1	KED
	Cu	**65**	**10.001**	ug/L	0.060	0	59	25088	0	KED
	Zn	**66**	**9.996**	ug/L	0.197	1	59	7197	1	KED
	Zn	**67**	**10.169**	ug/L	0.194	1	13	1177	1	KED
	As	**75**	**10.000**	ug/L	0.098	0	3	3298	1	KED
	Se	**78**	**9.998**	ug/L	0.245	2	11	392	2	KED
	Y	**89**		ug/L			967000	972191	2	Standard
	Kr	**83**		ug/L			64	77	5	Standard
>	**In-1**	**115**		ug/L			29935	28421	0	KED
	Cd	**111**	**10.000**	ug/L	0.041	0	2	3945	0	KED
	Cd	**114**	**10.000**	ug/L	0.167	1	1	10089	1	KED
>	**In**	**115**		ug/L			1886335	1891161	1	Standard
	Ag	**107**	**10.000**	ug/L	0.327	3	64	252701	4	Standard
	Sb	**121**	**10.000**	ug/L	0.092	0	64	253919	1	Standard
	Sb	**123**	**10.000**	ug/L	0.098	0	54	195067	1	Standard
	Ba	**135**	**10.001**	ug/L	0.103	1	46	67648	1	Standard
	Ba	**137**	**10.001**	ug/L	0.136	1	88	112842	0	Standard
>	**Tb**	**159**		ug/L			2858511	2925071	1	Standard
	Tl	**205**	**10.000**	ug/L	0.159	1	73	925461	1	Standard
	Pb	**208**	**10.000**	ug/L	0.224	2	373	1241671	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 14:39:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1160665	3	Standard
	Be	**9**	**20.053**	ug/L	0.666	3	6	113329	0	Standard
	C	**13**		ug/L			33459	50101	0	Standard
	Cl	**37**		ug/L			8651601	8904859	0	Standard
>	**Sc**	**45**		ug/L			1570082	1540366	1	Standard
	V	**51**	**19.958**	ug/L	0.429	2	8248	587658	0	Standard
	V-1	**51**	**19.959**	ug/L	0.406	2	224	585557	0	Standard
	Cr	**52**	**19.978**	ug/L	0.304	1	24127	528262	0	Standard
	Cr	**53**	**19.981**	ug/L	0.245	1	160	59022	1	Standard
	Mn	**55**	**20.011**	ug/L	0.336	1	777	796553	0	Standard
>	**Ge**	**72**		ug/L			104575	102089	1	KED
	Ni	**60**	**20.061**	ug/L	0.755	3	14	33278	2	KED
	Ni	**62**	**20.044**	ug/L	0.943	4	4	5456	3	KED
	Cu	**63**	**20.138**	ug/L	0.335	1	101	99424	1	KED
	Cu	**65**	**20.039**	ug/L	0.387	1	59	49690	0	KED
	Zn	**66**	**20.170**	ug/L	0.223	1	59	14566	1	KED
	Zn	**67**	**20.399**	ug/L	0.384	1	13	2448	1	KED
	As	**75**	**20.113**	ug/L	0.056	0	3	6662	1	KED
	Se	**78**	**20.097**	ug/L	1.288	6	11	778	4	KED
	Y	**89**		ug/L			967000	966191	0	Standard
	Kr	**83**		ug/L			64	60	34	Standard
>	**In-1**	**115**		ug/L			29935	27867	0	KED
	Cd	**111**	**19.966**	ug/L	0.312	1	2	7668	1	KED
	Cd	**114**	**20.034**	ug/L	0.438	2	1	19953	1	KED
>	**In**	**115**		ug/L			1886335	1851021	0	Standard
	Ag	**107**	**20.085**	ug/L	0.296	1	64	505229	1	Standard
	Sb	**121**	**20.088**	ug/L	0.111	0	64	508104	1	Standard
	Sb	**123**	**20.050**	ug/L	0.093	0	54	386619	0	Standard
	Ba	**135**	**20.087**	ug/L	0.062	0	46	135295	0	Standard
	Ba	**137**	**20.072**	ug/L	0.186	0	88	224848	1	Standard
>	**Tb**	**159**		ug/L			2858511	2925550	1	Standard
	Tl	**205**	**19.967**	ug/L	0.147	0	73	1836260	0	Standard
	Pb	**208**	**19.986**	ug/L	0.118	0	373	2475193	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 14:44:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1135869	3	Standard
	Be	**9**	**50.110**	ug/L	1.740	3	6	280230	0	Standard
	C	**13**		ug/L			33459	30653	1	Standard
	Cl	**37**		ug/L			8651601	9019387	0	Standard
>	**Sc**	**45**		ug/L			1570082	1492147	0	Standard
	V	**51**	**50.220**	ug/L	0.519	1	8248	1452695	1	Standard
	V-1	**51**	**50.205**	ug/L	0.475	0	224	1456665	1	Standard
	Cr	**52**	**50.102**	ug/L	0.455	0	24127	1261532	0	Standard
	Cr	**53**	**50.056**	ug/L	0.643	1	160	143822	0	Standard
	Mn	**55**	**50.072**	ug/L	0.772	1	777	1944160	1	Standard
>	**Ge**	**72**		ug/L			104575	99755	0	KED
	Ni	**60**	**49.946**	ug/L	1.291	2	14	80522	2	KED
	Ni	**62**	**49.976**	ug/L	1.368	2	4	13260	2	KED
	Cu	**63**	**49.834**	ug/L	0.339	0	101	236358	0	KED
	Cu	**65**	**49.891**	ug/L	0.547	1	59	119520	1	KED
	Zn	**66**	**49.909**	ug/L	0.622	1	59	34841	1	KED
	Zn	**67**	**49.825**	ug/L	0.192	0	13	5731	0	KED
	As	**75**	**50.058**	ug/L	0.350	0	3	16291	0	KED
	Se	**78**	**49.921**	ug/L	0.328	0	11	1860	0	KED
	Y	**89**		ug/L			967000	944272	0	Standard
	Kr	**83**		ug/L			64	74	13	Standard
>	**In-1**	**115**		ug/L			29935	27071	1	KED
	Cd	**111**	**50.056**	ug/L	0.498	0	2	18776	1	KED
	Cd	**114**	**50.065**	ug/L	0.672	1	1	48755	2	KED
>	**In**	**115**		ug/L			1886335	1824538	1	Standard
	Ag	**107**	**49.825**	ug/L	0.258	0	64	1214060	1	Standard
	Sb	**121**	**50.050**	ug/L	0.582	1	64	1253831	0	Standard
	Sb	**123**	**50.027**	ug/L	1.160	2	54	953272	2	Standard
	Ba	**135**	**50.230**	ug/L	0.842	1	46	341258	1	Standard
	Ba	**137**	**50.237**	ug/L	0.881	1	88	567936	1	Standard
>	**Tb**	**159**		ug/L			2858511	2918931	0	Standard
	Tl	**205**	**50.335**	ug/L	0.443	0	73	4778863	1	Standard
	Pb	**208**	**50.121**	ug/L	0.273	0	373	6268252	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 14:51:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1080096	3	Standard
	Be	**9**	**100.499**	ug/L	3.129	3	6	543449	1	Standard
	C	**13**		ug/L			33459	41423	1	Standard
	Cl	**37**		ug/L			8651601	8925064	1	Standard
>	**Sc**	**45**		ug/L			1570082	1424748	1	Standard
	V	**51**	**102.070**	ug/L	1.659	1	8248	3018656	0	Standard
	V-1	**51**	**101.774**	ug/L	1.588	1	224	2995930	0	Standard
	Cr	**52**	**101.626**	ug/L	0.870	0	24127	2558119	1	Standard
	Cr	**53**	**100.627**	ug/L	0.792	0	160	281799	1	Standard
	Mn	**55**	**101.217**	ug/L	1.172	1	777	3909816	0	Standard
>	**Ge**	**72**		ug/L			104575	97001	1	KED
	Ni	**60**	**100.275**	ug/L	1.760	1	14	158627	0	KED
	Ni	**62**	**100.116**	ug/L	1.026	1	4	25925	0	KED
	Cu	**63**	**99.933**	ug/L	1.217	1	101	459722	0	KED
	Cu	**65**	**99.892**	ug/L	0.716	0	59	231784	0	KED
	Zn	**66**	**99.579**	ug/L	1.203	1	59	66613	0	KED
	Zn	**67**	**99.548**	ug/L	1.094	1	13	10959	1	KED
	As	**75**	**100.464**	ug/L	0.981	0	3	32287	0	KED
	Se	**78**	**99.786**	ug/L	2.673	2	11	3579	1	KED
	Y	**89**		ug/L			967000	910471	1	Standard
	Kr	**83**		ug/L			64	80	10	Standard
>	**In-1**	**115**		ug/L			29935	27009	0	KED
	Cd	**111**	**99.768**	ug/L	0.816	0	2	37050	0	KED
	Cd	**114**	**99.633**	ug/L	1.000	1	1	95628	0	KED
>	**In**	**115**		ug/L			1886335	1727596	3	Standard
	Ag	**107**	**101.165**	ug/L	2.218	2	64	2427062	1	Standard
	Sb	**121**	**102.127**	ug/L	4.094	4	64	2605422	1	Standard
	Sb	**123**	**100.722**	ug/L	3.943	3	54	1860625	0	Standard
	Ba	**135**	**101.518**	ug/L	2.844	2	46	687470	1	Standard
	Ba	**137**	**101.719**	ug/L	3.264	3	88	1154253	0	Standard
>	**Tb**	**159**		ug/L			2858511	2912799	0	Standard
	Tl	**205**	**99.537**	ug/L	1.080	1	73	9285975	0	Standard
	Pb	**208**	**100.269**	ug/L	0.973	0	373	12626208	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 14:59:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1128072	2	Standard
	Be	**9**	**0.004**	ug/L	0.001	40	6	27	28	Standard
	C	**13**		ug/L			33459	32670	0	Standard
	Cl	**37**		ug/L			8651601	8761015	0	Standard
>	**Sc**	**45**		ug/L			1570082	1459165	0	Standard
	V	**51**	**0.001**	ug/L	0.003	438	8248	7683	0	Standard
	V-1	**51**	**0.002**	ug/L	0.001	48	224	256	9	Standard
	Cr	**52**	**-0.002**	ug/L	0.011	472	24127	22365	1	Standard
	Cr	**53**	**0.001**	ug/L	0.003	289	160	152	5	Standard
	Mn	**55**	**0.007**	ug/L	0.001	13	777	1008	3	Standard
>	**Ge**	**72**		ug/L			104575	101587	1	KED
	Ni	**60**	**0.001**	ug/L	0.002	167	14	16	24	KED
	Ni	**62**	**0.000**	ug/L	0.008	1645	4	4	49	KED
	Cu	**63**	**0.006**	ug/L	0.002	33	101	128	8	KED
	Cu	**65**	**0.005**	ug/L	0.001	15	59	70	2	KED
	Zn	**66**	**0.038**	ug/L	0.016	43	59	84	12	KED
	Zn	**67**	**0.009**	ug/L	0.042	459	13	14	32	KED
	As	**75**	**0.023**	ug/L	0.010	41	3	10	30	KED
	Se	**78**	**0.073**	ug/L	0.080	109	11	13	22	KED
	Y	**89**		ug/L			967000	922405	2	Standard
	Kr	**83**		ug/L			64	49	16	Standard
>	**In-1**	**115**		ug/L			29935	27821	1	KED
	Cd	**111**	**0.007**	ug/L	0.006	87	2	5	47	KED
	Cd	**114**	**0.004**	ug/L	0.002	39	1	5	32	KED
>	**In**	**115**		ug/L			1886335	1830176	1	Standard
	Ag	**107**	**0.006**	ug/L	0.001	16	64	205	10	Standard
	Sb	**121**	**0.044**	ug/L	0.002	3	64	1258	2	Standard
	Sb	**123**	**0.046**	ug/L	0.006	12	54	962	10	Standard
	Ba	**135**	**0.005**	ug/L	0.001	20	46	83	10	Standard
	Ba	**137**	**0.002**	ug/L	0.002	64	88	114	15	Standard
>	**Tb**	**159**		ug/L			2858511	2810304	1	Standard
	Tl	**205**	**0.003**	ug/L	0.000	6	73	343	4	Standard
	Pb	**208**	**0.004**	ug/L	0.000	13	373	812	6	Standard

Sample Information

Sample Date/Time: Wednesday, June 01, 2022 14:51:38
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	**1.0000**	0.005	0.20	10	20	50	100
C	13							
Cl	37							
Sc	45							
V	51	**0.9993**	0.021	0.20	10	20	50	100
V-1	51	**0.9995**	0.021	0.20	10	20	50	100
Cr	52	**0.9996**	0.018	0.50	10	20	50	100
Cr	53	**0.9999**	0.002	0.50	10	20	50	100
Mn	55	**0.9998**	0.027	0.50	10	20	50	100
Ge	72							
Ni	60	**1.0000**	0.016	0.50	10	20	50	100
Ni	62	**1.0000**	0.003	0.50	10	20	50	100
Cu	63	**1.0000**	0.047	0.50	10	20	50	100
Cu	65	**1.0000**	0.024	0.50	10	20	50	100
Zn	66	**1.0000**	0.007	6.00	10	20	50	100
Zn	67	**0.9999**	0.001	6.00	10	20	50	100
As	75	**1.0000**	0.003	0.20	10	20	50	100
Se	78	**1.0000**	0.000	0.50	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.014	0.10	10	20	50	100
Cd	114	**1.0000**	0.036	0.10	10	20	50	100
In	115							
Ag	107	**0.9998**	0.014	0.20	10	20	50	100
Sb	121	**0.9992**	0.015	0.20	10	20	50	100
Sb	123	**0.9999**	0.011	0.20	10	20	50	100
Ba	135	**0.9996**	0.004	0.50	10	20	50	100
Ba	137	**0.9995**	0.007	0.50	10	20	50	100
Tb	159							
Tl	205	**0.9999**	0.032	0.20	10	20	50	100
Pb	208	**1.0000**	0.043	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:06:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1121909	3	Standard
	Be	**9**	**49.025**	ug/L	1.424	2	6	275384	1	Standard
	C	**13**		ug/L			33459	37830	0	Standard
	Cl	**37**		ug/L			8651601	9021679	0	Standard
>	**Sc**	**45**		ug/L			1570082	1467843	1	Standard
	V	**51**	**47.812**	ug/L	0.721	1	8248	1461001	1	Standard
	V-1	**51**	**48.377**	ug/L	0.777	1	224	1467345	0	Standard
	Cr	**52**	**48.348**	ug/L	0.750	1	24127	1265675	1	Standard
	Cr	**53**	**50.255**	ug/L	1.000	1	160	145050	0	Standard
	Mn	**55**	**49.103**	ug/L	0.765	1	777	1954494	0	Standard
>	**Ge**	**72**		ug/L			104575	100255	0	KED
	Ni	**60**	**49.838**	ug/L	0.052	0	14	81503	0	KED
	Ni	**62**	**50.308**	ug/L	1.183	2	4	13467	2	KED
	Cu	**63**	**50.102**	ug/L	0.596	1	101	238284	0	KED
	Cu	**65**	**50.350**	ug/L	0.822	1	59	120777	0	KED
	Zn	**66**	**49.217**	ug/L	0.569	1	59	34058	0	KED
	Zn	**67**	**50.490**	ug/L	1.620	3	13	5750	2	KED
	As	**75**	**48.896**	ug/L	0.366	0	3	16243	0	KED
	Se	**78**	**76.229**	ug/L	0.346	0	11	2829	0	KED
	Y	**89**		ug/L			967000	926210	1	Standard
	Kr	**83**		ug/L			64	86	7	Standard
>	**In-1**	**115**		ug/L			29935	27412	1	KED
	Cd	**111**	**49.936**	ug/L	0.345	0	2	18822	1	KED
	Cd	**114**	**50.379**	ug/L	0.610	1	1	49073	0	KED
>	**In**	**115**		ug/L			1886335	1801400	0	Standard
	Ag	**107**	**47.844**	ug/L	0.552	1	64	1197520	1	Standard
	Sb	**121**	**46.661**	ug/L	0.181	0	64	1242299	0	Standard
	Sb	**123**	**48.542**	ug/L	0.398	0	54	935867	1	Standard
	Ba	**135**	**48.055**	ug/L	0.385	0	46	339519	0	Standard
	Ba	**137**	**47.871**	ug/L	0.526	1	88	566846	0	Standard
>	**Tb**	**159**		ug/L			2858511	2907952	1	Standard
	Tl	**205**	**51.696**	ug/L	0.894	1	73	4814568	1	Standard
	Pb	**208**	**50.472**	ug/L	0.708	1	373	6344850	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:13:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1131980	2	Standard
	Be	**9**	**0.003**	ug/L	0.001	33	6	23	23	Standard
	C	**13**		ug/L			33459	32856	0	Standard
	Cl	**37**		ug/L			8651601	8780412	0	Standard
>	**Sc**	**45**		ug/L			1570082	1465414	2	Standard
	V	**51**	**-0.004**	ug/L	0.005	133	8248	7582	1	Standard
	V-1	**51**	**-0.000**	ug/L	0.000	184	224	201	5	Standard
	Cr	**52**	**-0.007**	ug/L	0.014	190	24127	22329	1	Standard
	Cr	**53**	**0.005**	ug/L	0.006	130	160	162	10	Standard
	Mn	**55**	**0.003**	ug/L	0.001	34	777	831	3	Standard
>	**Ge**	**72**		ug/L			104575	102110	0	KED
	Ni	**60**	**0.002**	ug/L	0.004	172	14	17	34	KED
	Ni	**62**	**0.005**	ug/L	0.007	136	4	5	33	KED
	Cu	**63**	**0.005**	ug/L	0.003	66	101	121	12	KED
	Cu	**65**	**0.003**	ug/L	0.003	106	59	66	13	KED
	Zn	**66**	**0.022**	ug/L	0.017	79	59	73	17	KED
	Zn	**67**	**-0.013**	ug/L	0.026	192	13	12	24	KED
	As	**75**	**0.008**	ug/L	0.004	55	3	5	25	KED
	Se	**78**	**0.084**	ug/L	0.013	14	11	13	3	KED
	Y	**89**		ug/L			967000	916079	1	Standard
	Kr	**83**		ug/L			64	77	8	Standard
>	**In-1**	**115**		ug/L			29935	28038	2	KED
	Cd	**111**	**0.000**	ug/L	0.002	352	2	2	21	KED
	Cd	**114**	**0.001**	ug/L	0.002	269	1	1	107	KED
>	**In**	**115**		ug/L			1886335	1788382	0	Standard
	Ag	**107**	**0.003**	ug/L	0.001	24	64	145	14	Standard
	Sb	**121**	**0.012**	ug/L	0.002	13	64	375	11	Standard
	Sb	**123**	**0.013**	ug/L	0.001	9	54	308	7	Standard
	Ba	**135**	**0.006**	ug/L	0.003	49	46	85	23	Standard
	Ba	**137**	**0.004**	ug/L	0.001	40	88	125	13	Standard
>	**Tb**	**159**		ug/L			2858511	2833319	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	2	73	231	1	Standard
	Pb	**208**	**0.002**	ug/L	0.000	8	373	633	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:18:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1116930	2	Standard
	Be	**9**	**48.785**	ug/L	1.350	2	6	272890	0	Standard
	C	**13**		ug/L			33459	30798	1	Standard
	Cl	**37**		ug/L			8651601	8982019	0	Standard
>	**Sc**	**45**		ug/L			1570082	1441973	1	Standard
	V	**51**	**46.816**	ug/L	0.484	1	8248	1405534	1	Standard
	V-1	**51**	**47.480**	ug/L	0.446	0	224	1414836	1	Standard
	Cr	**52**	**47.549**	ug/L	0.345	0	24127	1223171	1	Standard
	Cr	**53**	**49.786**	ug/L	0.189	0	160	141193	1	Standard
	Mn	**55**	**48.521**	ug/L	0.291	0	777	1897632	2	Standard
>	**Ge**	**72**		ug/L			104575	98874	0	KED
	Ni	**60**	**49.003**	ug/L	0.554	1	14	79035	1	KED
	Ni	**62**	**48.820**	ug/L	0.865	1	4	12889	1	KED
	Cu	**63**	**50.018**	ug/L	0.173	0	101	234613	0	KED
	Cu	**65**	**49.781**	ug/L	0.736	1	59	117778	1	KED
	Zn	**66**	**50.302**	ug/L	0.596	1	59	34330	1	KED
	Zn	**67**	**50.265**	ug/L	1.004	1	13	5647	2	KED
	As	**75**	**49.714**	ug/L	0.460	0	3	16288	1	KED
	Se	**78**	**48.793**	ug/L	0.440	0	11	1789	1	KED
	Y	**89**		ug/L			967000	910088	2	Standard
	Kr	**83**		ug/L			64	61	9	Standard
>	**In-1**	**115**		ug/L			29935	26722	2	KED
	Cd	**111**	**49.846**	ug/L	1.440	2	2	18306	0	KED
	Cd	**114**	**50.045**	ug/L	1.321	2	1	47504	1	KED
>	**In**	**115**		ug/L			1886335	1761437	2	Standard
	Ag	**107**	**46.521**	ug/L	0.865	1	64	1138545	2	Standard
	Sb	**121**	**45.963**	ug/L	1.028	2	64	1196207	1	Standard
	Sb	**123**	**48.791**	ug/L	1.314	2	54	919473	1	Standard
	Ba	**135**	**48.584**	ug/L	1.207	2	46	335546	1	Standard
	Ba	**137**	**48.075**	ug/L	1.383	2	88	556424	0	Standard
>	**Tb**	**159**		ug/L			2858511	2848389	0	Standard
	Tl	**205**	**51.324**	ug/L	0.666	1	73	4682369	1	Standard
	Pb	**208**	**50.147**	ug/L	0.110	0	373	6175535	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:26:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1154262	1	Standard
	Be	**9**	**0.003**	ug/L	0.001	25	6	22	17	Standard
	C	**13**		ug/L			33459	32648	0	Standard
	Cl	**37**		ug/L			8651601	8791007	0	Standard
>	**Sc**	**45**		ug/L			1570082	1475115	0	Standard
	V	**51**	**-0.005**	ug/L	0.005	110	8248	7610	1	Standard
	V-1	**51**	**-0.001**	ug/L	0.001	89	224	193	7	Standard
	Cr	**52**	**-0.016**	ug/L	0.020	125	24127	22264	1	Standard
	Cr	**53**	**-0.002**	ug/L	0.004	184	160	143	8	Standard
	Mn	**55**	**0.002**	ug/L	0.001	35	777	802	2	Standard
>	**Ge**	**72**		ug/L			104575	101131	1	KED
	Ni	**60**	**-0.001**	ug/L	0.004	308	14	12	55	KED
	Ni	**62**	**-0.004**	ug/L	0.014	343	4	3	124	KED
	Cu	**63**	**0.003**	ug/L	0.001	42	101	113	6	KED
	Cu	**65**	**0.009**	ug/L	0.005	55	59	80	14	KED
	Zn	**66**	**0.020**	ug/L	0.003	14	59	71	3	KED
	Zn	**67**	**-0.001**	ug/L	0.017	1120	13	13	14	KED
	As	**75**	**0.011**	ug/L	0.003	26	3	6	12	KED
	Se	**78**	**0.122**	ug/L	0.033	26	11	15	9	KED
	Y	**89**		ug/L			967000	917081	2	Standard
	Kr	**83**		ug/L			64	64	9	Standard
>	**In-1**	**115**		ug/L			29935	27937	1	KED
	Cd	**111**	**0.000**	ug/L	0.001	318	2	2	21	KED
	Cd	**114**	**0.002**	ug/L	0.003	148	1	3	97	KED
>	**In**	**115**		ug/L			1886335	1800697	0	Standard
	Ag	**107**	**0.003**	ug/L	0.001	19	64	134	10	Standard
	Sb	**121**	**0.046**	ug/L	0.000	0	64	1295	0	Standard
	Sb	**123**	**0.048**	ug/L	0.004	9	54	981	8	Standard
	Ba	**135**	**0.006**	ug/L	0.003	47	46	85	23	Standard
	Ba	**137**	**0.004**	ug/L	0.001	15	88	137	6	Standard
>	**Tb**	**159**		ug/L			2858511	2821350	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	13	73	283	10	Standard
	Pb	**208**	**0.002**	ug/L	0.000	3	373	579	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:34:28

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1160262	1	Standard
	Be	**9**	**0.189**	ug/L	0.002	1	6	1107	0	Standard
	C	**13**		ug/L			33459	35335	0	Standard
	Cl	**37**		ug/L			8651601	8739003	0	Standard
>	**Sc**	**45**		ug/L			1570082	1472783	0	Standard
	V	**51**	**0.186**	ug/L	0.005	2	8248	13412	0	Standard
	V-1	**51**	**0.187**	ug/L	0.003	1	224	5899	1	Standard
	Cr	**52**	**0.479**	ug/L	0.015	3	24127	34994	1	Standard
	Cr	**53**	**0.484**	ug/L	0.008	1	160	1551	1	Standard
	Mn	**55**	**0.477**	ug/L	0.011	2	777	19754	2	Standard
>	**Ge**	**72**		ug/L			104575	102751	1	KED
	Ni	**60**	**0.473**	ug/L	0.039	8	14	808	9	KED
	Ni	**62**	**0.510**	ug/L	0.016	3	4	144	2	KED
	Cu	**63**	**0.527**	ug/L	0.007	1	101	2666	0	KED
	Cu	**65**	**0.524**	ug/L	0.039	7	59	1346	5	KED
	Zn	**66**	**10.846**	ug/L	0.129	1	59	7737	0	KED
	Zn	**67**	**10.200**	ug/L	0.457	4	13	1201	2	KED
	As	**75**	**0.192**	ug/L	0.022	11	3	68	10	KED
	Se	**78**	**0.667**	ug/L	0.062	9	11	36	7	KED
	Y	**89**		ug/L			967000	940632	1	Standard
	Kr	**83**		ug/L			64	57	17	Standard
>	**In-1**	**115**		ug/L			29935	28484	2	KED
	Cd	**111**	**0.077**	ug/L	0.023	30	2	32	26	KED
	Cd	**114**	**0.099**	ug/L	0.008	8	1	101	6	KED
>	**In**	**115**		ug/L			1886335	1825590	1	Standard
	Ag	**107**	**0.191**	ug/L	0.002	1	64	4910	1	Standard
	Sb	**121**	**0.194**	ug/L	0.000	0	64	5284	1	Standard
	Sb	**123**	**0.207**	ug/L	0.009	4	54	4104	3	Standard
	Ba	**135**	**0.458**	ug/L	0.013	2	46	3321	1	Standard
	Ba	**137**	**0.451**	ug/L	0.021	4	88	5502	4	Standard
>	**Tb**	**159**		ug/L			2858511	2850354	0	Standard
	Tl	**205**	**0.194**	ug/L	0.001	0	73	17762	0	Standard
	Pb	**208**	**0.115**	ug/L	0.003	2	373	14521	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:40:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1166181	0	Standard
	Be	**9**	**0.185**	ug/L	0.008	4	6	1085	3	Standard
	C	**13**		ug/L			33459	37071	0	Standard
	Cl	**37**		ug/L			8651601	8686779	0	Standard
>	**Sc**	**45**		ug/L			1570082	1498613	1	Standard
	V	**51**	**0.178**	ug/L	0.014	7	8248	13407	2	Standard
	V-1	**51**	**0.180**	ug/L	0.005	2	224	5778	1	Standard
	Cr	**52**	**0.473**	ug/L	0.039	8	24127	35452	1	Standard
	Cr	**53**	**0.480**	ug/L	0.024	4	160	1566	4	Standard
	Mn	**55**	**0.466**	ug/L	0.014	3	777	19674	1	Standard
>	**Ge**	**72**		ug/L			104575	103201	0	KED
	Ni	**60**	**0.449**	ug/L	0.027	6	14	770	5	KED
	Ni	**62**	**0.526**	ug/L	0.042	7	4	149	7	KED
	Cu	**63**	**0.493**	ug/L	0.008	1	101	2511	1	KED
	Cu	**65**	**0.485**	ug/L	0.014	2	59	1256	2	KED
	Zn	**66**	**5.857**	ug/L	0.108	1	59	4224	1	KED
	Zn	**67**	**5.267**	ug/L	0.141	2	13	629	1	KED
	As	**75**	**0.196**	ug/L	0.016	8	3	70	7	KED
	Se	**78**	**0.634**	ug/L	0.200	31	11	35	22	KED
	Y	**89**		ug/L			967000	929281	0	Standard
	Kr	**83**		ug/L			64	64	4	Standard
>	**In-1**	**115**		ug/L			29935	28357	0	KED
	Cd	**111**	**0.114**	ug/L	0.015	13	2	46	12	KED
	Cd	**114**	**0.105**	ug/L	0.004	4	1	106	3	KED
>	**In**	**115**		ug/L			1886335	1847982	1	Standard
	Ag	**107**	**0.193**	ug/L	0.006	2	64	5019	1	Standard
	Sb	**121**	**0.184**	ug/L	0.003	1	64	5090	2	Standard
	Sb	**123**	**0.187**	ug/L	0.004	1	54	3742	1	Standard
	Ba	**135**	**0.446**	ug/L	0.006	1	46	3280	2	Standard
	Ba	**137**	**0.437**	ug/L	0.010	2	88	5394	1	Standard
>	**Tb**	**159**		ug/L			2858511	2868859	0	Standard
	Tl	**205**	**0.188**	ug/L	0.004	1	73	17386	1	Standard
	Pb	**208**	**0.099**	ug/L	0.002	2	373	12598	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:45:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1135760	6	Standard
	Be	**9**	**0.002**	ug/L	0.000	13	6	15	13	Standard
	C	**13**		ug/L			33459	136437	1	Standard
	Cl	**37**		ug/L			8651601	16911831	2	Standard
>	**Sc**	**45**		ug/L			1570082	1500797	3	Standard
	V	**51**	**-0.040**	ug/L	0.028	69	8248	6664	16	Standard
	V-1	**51**	**3.431**	ug/L	0.110	3	224	106519	0	Standard
	Cr	**52**	**0.809**	ug/L	0.035	4	24127	44309	1	Standard
	Cr	**53**	**12.488**	ug/L	0.488	3	160	36940	0	Standard
	Mn	**55**	**0.123**	ug/L	0.005	4	777	5745	0	Standard
>	**Ge**	**72**		ug/L			104575	97981	1	KED
	Ni	**60**	**0.035**	ug/L	0.001	4	14	69	3	KED
	Ni	**62**	**0.108**	ug/L	0.033	30	4	32	25	KED
	Cu	**63**	**0.036**	ug/L	0.001	2	101	262	2	KED
	Cu	**65**	**0.041**	ug/L	0.005	12	59	153	9	KED
	Zn	**66**	**0.440**	ug/L	0.050	11	59	352	8	KED
	Zn	**67**	**0.449**	ug/L	0.094	20	13	62	15	KED
	As	**75**	**0.027**	ug/L	0.002	7	3	11	6	KED
	Se	**78**	**0.122**	ug/L	0.057	46	11	14	15	KED
	Y	**89**		ug/L			967000	912056	4	Standard
	Kr	**83**		ug/L			64	93	16	Standard
>	**In-1**	**115**		ug/L			29935	27014	1	KED
	Cd	**111**	**0.090**	ug/L	0.008	9	2	35	9	KED
	Cd	**114**	**0.079**	ug/L	0.016	20	1	76	19	KED
>	**In**	**115**		ug/L			1886335	1759548	4	Standard
	Ag	**107**	**0.063**	ug/L	0.002	3	64	1608	1	Standard
	Sb	**121**	**0.110**	ug/L	0.004	3	64	2923	3	Standard
	Sb	**123**	**0.111**	ug/L	0.005	4	54	2143	2	Standard
	Ba	**135**	**0.078**	ug/L	0.003	3	46	579	2	Standard
	Ba	**137**	**0.065**	ug/L	0.007	11	88	832	7	Standard
>	**Tb**	**159**		ug/L			2858511	2976915	3	Standard
	Tl	**205**	**0.004**	ug/L	0.000	5	73	474	5	Standard
	Pb	**208**	**0.025**	ug/L	0.001	3	373	3549	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:50:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1186802	2	Standard
	Be	**9**	**0.001**	ug/L	0.001	110	6	13	55	Standard
	C	**13**		ug/L			33459	136438	1	Standard
	Cl	**37**		ug/L			8651601	17342847	1	Standard
>	**Sc**	**45**		ug/L			1570082	1566884	1	Standard
	V	**51**	**-0.257**	ug/L	0.047	18	8248	-105	1433	Standard
	V-1	**51**	**3.200**	ug/L	0.035	1	224	103831	0	Standard
	Cr	**52**	**19.337**	ug/L	0.297	1	24127	554813	1	Standard
	Cr	**53**	**31.112**	ug/L	0.277	0	160	95932	0	Standard
	Mn	**55**	**19.182**	ug/L	0.188	0	777	815587	1	Standard
>	**Ge**	**72**		ug/L			104575	98153	0	KED
	Ni	**60**	**19.711**	ug/L	0.528	2	14	31564	2	KED
	Ni	**62**	**19.707**	ug/L	0.496	2	4	5167	2	KED
	Cu	**63**	**19.873**	ug/L	0.408	2	101	92585	1	KED
	Cu	**65**	**19.906**	ug/L	0.173	0	59	46787	1	KED
	Zn	**66**	**19.509**	ug/L	0.230	1	59	13251	0	KED
	Zn	**67**	**18.010**	ug/L	0.436	2	13	2017	3	KED
	As	**75**	**19.432**	ug/L	0.080	0	3	6322	0	KED
	Se	**78**	**0.196**	ug/L	0.090	45	11	17	17	KED
	Y	**89**		ug/L			967000	964211	0	Standard
	Kr	**83**		ug/L			64	80	9	Standard
>	**In-1**	**115**		ug/L			29935	26820	1	KED
	Cd	**111**	**19.655**	ug/L	0.661	3	2	7247	1	KED
	Cd	**114**	**19.424**	ug/L	0.524	2	1	18509	1	KED
>	**In**	**115**		ug/L			1886335	1815260	1	Standard
	Ag	**107**	**18.319**	ug/L	0.311	1	64	462040	1	Standard
	Sb	**121**	**0.070**	ug/L	0.002	2	64	1932	3	Standard
	Sb	**123**	**0.073**	ug/L	0.001	1	54	1466	2	Standard
	Ba	**135**	**0.072**	ug/L	0.001	1	46	560	1	Standard
	Ba	**137**	**0.073**	ug/L	0.006	8	88	950	8	Standard
>	**Tb**	**159**		ug/L			2858511	3074462	0	Standard
	Tl	**205**	**0.004**	ug/L	0.000	1	73	433	1	Standard
	Pb	**208**	**0.026**	ug/L	0.001	2	373	3828	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 15:55:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1128414	2	Standard
	Be	**9**	**191.425**	ug/L	7.498	3	6	1081500	1	Standard
	C	**13**		ug/L			33459	37800	1	Standard
	Cl	**37**		ug/L			8651601	8963960	0	Standard
>	**Sc**	**45**		ug/L			1570082	1470231	1	Standard
	V	**51**	**198.051**	ug/L	3.831	1	8248	6037286	1	Standard
	V-1	**51**	**197.370**	ug/L	3.803	1	224	5995619	1	Standard
	Cr	**52**	**196.005**	ug/L	2.204	1	24127	5070811	1	Standard
	Cr	**53**	**193.698**	ug/L	2.445	1	160	559676	2	Standard
	Mn	**55**	**197.206**	ug/L	3.039	1	777	7861423	2	Standard
>	**Ge**	**72**		ug/L			104575	94674	0	KED
	Ni	**60**	**198.198**	ug/L	2.268	1	14	306050	1	KED
	Ni	**62**	**198.343**	ug/L	0.682	0	4	50129	0	KED
	Cu	**63**	**196.391**	ug/L	3.017	1	101	881749	1	KED
	Cu	**65**	**196.612**	ug/L	1.740	0	59	445227	0	KED
	Zn	**66**	**195.697**	ug/L	1.940	0	59	127727	0	KED
	Zn	**67**	**194.279**	ug/L	3.233	1	13	20864	1	KED
	As	**75**	**197.281**	ug/L	0.843	0	3	61883	0	KED
	Se	**78**	**194.914**	ug/L	1.745	0	11	6816	1	KED
	Y	**89**		ug/L			967000	919371	1	Standard
	Kr	**83**		ug/L			64	134	14	Standard
>	**In-1**	**115**		ug/L			29935	25615	2	KED
	Cd	**111**	**198.827**	ug/L	3.566	1	2	70011	1	KED
	Cd	**114**	**199.640**	ug/L	2.814	1	1	181706	1	KED
>	**In**	**115**		ug/L			1886335	1728254	0	Standard
	Ag	**107**	**198.403**	ug/L	2.878	1	64	4764146	1	Standard
	Sb	**121**	**196.891**	ug/L	1.711	0	64	5028831	0	Standard
	Sb	**123**	**206.106**	ug/L	0.101	0	54	3812065	0	Standard
	Ba	**135**	**200.065**	ug/L	1.430	0	46	1355956	0	Standard
	Ba	**137**	**216.377**	ug/L	1.313	0	88	2457891	0	Standard
>	**Tb**	**159**		ug/L			2858511	2995882	0	Standard
	Tl	**205**	**187.648**	ug/L	2.659	1	73	18005424	0	Standard
	Pb	**208**	**186.091**	ug/L	1.926	1	373	24101527	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:00:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1078931	2	Standard
	Be	**9**	**281.363**	ug/L	9.705	3	6	1519865	0	Standard
	C	**13**		ug/L			33459	40509	0	Standard
	Cl	**37**		ug/L			8651601	8691628	0	Standard
>	**Sc**	**45**		ug/L			1570082	1395884	1	Standard
	V	**51**	**293.143**	ug/L	1.848	0	8248	8481577	1	Standard
	V-1	**51**	**293.790**	ug/L	1.660	0	224	8473960	1	Standard
	Cr	**52**	**291.630**	ug/L	0.165	0	24127	7152665	1	Standard
	Cr	**53**	**293.795**	ug/L	3.019	1	160	805815	0	Standard
	Mn	**55**	**294.412**	ug/L	4.086	1	777	11140784	0	Standard
>	**Ge**	**72**		ug/L			104575	91384	0	KED
	Ni	**60**	**294.709**	ug/L	6.471	2	14	439205	1	KED
	Ni	**62**	**295.545**	ug/L	2.414	0	4	72096	0	KED
	Cu	**63**	**289.626**	ug/L	4.782	1	101	1255113	1	KED
	Cu	**65**	**287.575**	ug/L	5.675	1	59	628537	1	KED
	Zn	**66**	**283.091**	ug/L	3.540	1	59	178319	0	KED
	Zn	**67**	**279.379**	ug/L	6.919	2	13	28951	1	KED
	As	**75**	**295.989**	ug/L	1.402	0	3	89616	0	KED
	Se	**78**	**288.077**	ug/L	1.472	0	11	9718	0	KED
	Y	**89**		ug/L			967000	870847	0	Standard
	Kr	**83**		ug/L			64	140	19	Standard
>	**In-1**	**115**		ug/L			29935	24967	1	KED
	Cd	**111**	**291.491**	ug/L	3.848	1	2	100054	0	KED
	Cd	**114**	**291.907**	ug/L	2.939	1	1	258981	0	KED
>	**In**	**115**		ug/L			1886335	1650567	0	Standard
	Ag	**107**	**287.970**	ug/L	4.572	1	64	6603096	0	Standard
	Sb	**121**	**289.549**	ug/L	3.693	1	64	7062987	1	Standard
	Sb	**123**	**303.362**	ug/L	2.088	0	54	5358656	1	Standard
	Ba	**135**	**333.024**	ug/L	1.558	0	46	2155624	0	Standard
	Ba	**137**	**338.407**	ug/L	4.563	1	88	3671047	0	Standard
>	**Tb**	**159**		ug/L			2858511	2953622	0	Standard
	Tl	**205**	**274.756**	ug/L	0.052	0	73	25993254	0	Standard
	Pb	**208**	**271.322**	ug/L	1.152	0	373	34646163	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:08:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1207393	1	Standard
	Be	**9**	**0.011**	ug/L	0.004	34	6	71	31	Standard
	C	**13**		ug/L			33459	32976	1	Standard
	Cl	**37**		ug/L			8651601	8946268	0	Standard
>	**Sc**	**45**		ug/L			1570082	1510446	2	Standard
	V	**51**	**0.002**	ug/L	0.008	429	8248	7989	2	Standard
	V-1	**51**	**0.045**	ug/L	0.003	6	224	1623	3	Standard
	Cr	**52**	**0.003**	ug/L	0.014	455	24127	23287	1	Standard
	Cr	**53**	**0.149**	ug/L	0.010	6	160	595	4	Standard
	Mn	**55**	**0.017**	ug/L	0.002	13	777	1431	3	Standard
>	**Ge**	**72**		ug/L			104575	103171	0	KED
	Ni	**60**	**0.029**	ug/L	0.009	31	14	62	23	KED
	Ni	**62**	**0.051**	ug/L	0.034	67	4	18	51	KED
	Cu	**63**	**0.025**	ug/L	0.004	13	101	224	8	KED
	Cu	**65**	**0.021**	ug/L	0.003	16	59	109	7	KED
	Zn	**66**	**0.194**	ug/L	0.025	12	59	196	8	KED
	Zn	**67**	**0.164**	ug/L	0.146	89	13	33	52	KED
	As	**75**	**0.024**	ug/L	0.004	15	3	11	11	KED
	Se	**78**	**0.197**	ug/L	0.099	50	11	18	20	KED
	Y	**89**		ug/L			967000	928120	1	Standard
	Kr	**83**		ug/L			64	68	32	Standard
>	**In-1**	**115**		ug/L			29935	28190	1	KED
	Cd	**111**	**0.013**	ug/L	0.006	47	2	7	33	KED
	Cd	**114**	**0.018**	ug/L	0.006	35	1	19	32	KED
>	**In**	**115**		ug/L			1886335	1827492	1	Standard
	Ag	**107**	**0.016**	ug/L	0.002	10	64	468	10	Standard
	Sb	**121**	**0.167**	ug/L	0.005	2	64	4563	4	Standard
	Sb	**123**	**0.178**	ug/L	0.005	2	54	3535	3	Standard
	Ba	**135**	**0.013**	ug/L	0.003	26	46	136	19	Standard
	Ba	**137**	**0.010**	ug/L	0.001	14	88	209	7	Standard
>	**Tb**	**159**		ug/L			2858511	2849405	0	Standard
	Tl	**205**	**0.015**	ug/L	0.001	4	73	1396	3	Standard
	Pb	**208**	**0.013**	ug/L	0.001	3	373	1991	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:19:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1183452	0	Standard
	Be	**9**	**0.002**	ug/L	0.001	28	6	20	18	Standard
	C	**13**		ug/L			33459	32624	0	Standard
	Cl	**37**		ug/L			8651601	8672496	0	Standard
>	**Sc**	**45**		ug/L			1570082	1515332	1	Standard
	V	**51**	**0.002**	ug/L	0.001	55	8248	8016	1	Standard
	V-1	**51**	**0.024**	ug/L	0.001	5	224	967	5	Standard
	Cr	**52**	**0.014**	ug/L	0.013	95	24127	23653	0	Standard
	Cr	**53**	**0.089**	ug/L	0.007	8	160	418	4	Standard
	Mn	**55**	**0.009**	ug/L	0.000	5	777	1111	0	Standard
>	**Ge**	**72**		ug/L			104575	105066	0	KED
	Ni	**60**	**0.017**	ug/L	0.002	10	14	44	6	KED
	Ni	**62**	**0.036**	ug/L	0.008	22	4	14	15	KED
	Cu	**63**	**0.012**	ug/L	0.001	9	101	162	3	KED
	Cu	**65**	**0.004**	ug/L	0.000	6	59	71	1	KED
	Zn	**66**	**0.172**	ug/L	0.020	11	59	184	7	KED
	Zn	**67**	**0.138**	ug/L	0.071	51	13	30	27	KED
	As	**75**	**-0.000**	ug/L	0.004	875	3	3	48	KED
	Se	**78**	**0.123**	ug/L	0.082	66	11	15	19	KED
	Y	**89**		ug/L			967000	935848	1	Standard
	Kr	**83**		ug/L			64	61	4	Standard
>	**In-1**	**115**		ug/L			29935	29121	1	KED
	Cd	**111**	**0.001**	ug/L	0.007	765	2	2	100	KED
	Cd	**114**	**0.001**	ug/L	0.003	491	1	1	188	KED
>	**In**	**115**		ug/L			1886335	1812307	0	Standard
	Ag	**107**	**0.004**	ug/L	0.001	30	64	158	18	Standard
	Sb	**121**	**0.053**	ug/L	0.001	1	64	1485	1	Standard
	Sb	**123**	**0.054**	ug/L	0.005	8	54	1104	7	Standard
	Ba	**135**	**0.005**	ug/L	0.001	24	46	83	11	Standard
	Ba	**137**	**0.005**	ug/L	0.002	37	88	139	15	Standard
>	**Tb**	**159**		ug/L			2858511	2864886	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	15	73	276	11	Standard
	Pb	**208**	**0.006**	ug/L	0.000	0	373	1069	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:25:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1173335	1	Standard
	Be	**9**	**49.635**	ug/L	1.016	2	6	291718	0	Standard
	C	**13**		ug/L			33459	30954	0	Standard
	Cl	**37**		ug/L			8651601	9130521	0	Standard
>	**Sc**	**45**		ug/L			1570082	1493930	0	Standard
	V	**51**	**46.861**	ug/L	0.305	0	8248	1457665	0	Standard
	V-1	**51**	**47.496**	ug/L	0.398	0	224	1466406	0	Standard
	Cr	**52**	**47.719**	ug/L	0.423	0	24127	1271766	0	Standard
	Cr	**53**	**49.863**	ug/L	0.871	1	160	146504	1	Standard
	Mn	**55**	**48.649**	ug/L	0.540	1	777	1971057	0	Standard
>	**Ge**	**72**		ug/L			104575	101878	0	KED
	Ni	**60**	**49.386**	ug/L	0.127	0	14	82074	1	KED
	Ni	**62**	**48.478**	ug/L	0.568	1	4	13187	1	KED
	Cu	**63**	**49.656**	ug/L	0.682	1	101	239977	0	KED
	Cu	**65**	**49.705**	ug/L	0.597	1	59	121176	1	KED
	Zn	**66**	**50.338**	ug/L	0.310	0	59	35398	0	KED
	Zn	**67**	**50.123**	ug/L	0.340	0	13	5802	0	KED
	As	**75**	**49.216**	ug/L	0.208	0	3	16615	0	KED
	Se	**78**	**49.590**	ug/L	1.206	2	11	1873	2	KED
	Y	**89**		ug/L			967000	930617	1	Standard
	Kr	**83**		ug/L			64	81	26	Standard
>	**In-1**	**115**		ug/L			29935	27949	0	KED
	Cd	**111**	**49.449**	ug/L	0.234	0	2	19004	0	KED
	Cd	**114**	**49.345**	ug/L	0.737	1	1	49010	1	KED
>	**In**	**115**		ug/L			1886335	1787625	0	Standard
	Ag	**107**	**47.740**	ug/L	0.404	0	64	1185710	0	Standard
	Sb	**121**	**46.369**	ug/L	0.542	1	64	1225095	1	Standard
	Sb	**123**	**48.329**	ug/L	0.530	1	54	924626	1	Standard
	Ba	**135**	**47.956**	ug/L	0.807	1	46	336220	1	Standard
	Ba	**137**	**47.809**	ug/L	0.749	1	88	561774	1	Standard
>	**Tb**	**159**		ug/L			2858511	2916167	0	Standard
	Tl	**205**	**50.455**	ug/L	0.481	0	73	4712847	1	Standard
	Pb	**208**	**48.854**	ug/L	0.562	1	373	6159162	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:33:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1198595	2	Standard
	Be	**9**	**0.003**	ug/L	0.002	54	6	24	39	Standard
	C	**13**		ug/L			33459	33442	1	Standard
	Cl	**37**		ug/L			8651601	8820351	0	Standard
>	**Sc**	**45**		ug/L			1570082	1523361	0	Standard
	V	**51**	**-0.001**	ug/L	0.003	430	8248	7977	0	Standard
	V-1	**51**	**0.016**	ug/L	0.000	2	224	731	1	Standard
	Cr	**52**	**-0.005**	ug/L	0.014	275	24127	23269	0	Standard
	Cr	**53**	**0.052**	ug/L	0.004	8	160	312	3	Standard
	Mn	**55**	**0.005**	ug/L	0.001	23	777	948	5	Standard
>	**Ge**	**72**		ug/L			104575	103021	1	KED
	Ni	**60**	**0.002**	ug/L	0.004	167	14	18	36	KED
	Ni	**62**	**0.000**	ug/L	0.011	5039	4	4	65	KED
	Cu	**63**	**0.008**	ug/L	0.004	44	101	140	13	KED
	Cu	**65**	**-0.000**	ug/L	0.004	2082	59	58	17	KED
	Zn	**66**	**0.037**	ug/L	0.002	6	59	85	3	KED
	Zn	**67**	**-0.036**	ug/L	0.017	46	13	9	20	KED
	As	**75**	**0.007**	ug/L	0.003	48	3	5	21	KED
	Se	**78**	**0.085**	ug/L	0.007	7	11	14	3	KED
	Y	**89**		ug/L			967000	920371	1	Standard
	Kr	**83**		ug/L			64	58	13	Standard
>	**In-1**	**115**		ug/L			29935	28238	1	KED
	Cd	**111**	**0.002**	ug/L	0.005	254	2	3	62	KED
	Cd	**114**	**0.003**	ug/L	0.004	119	1	4	90	KED
>	**In**	**115**		ug/L			1886335	1799875	0	Standard
	Ag	**107**	**0.003**	ug/L	0.000	10	64	135	5	Standard
	Sb	**121**	**0.059**	ug/L	0.002	3	64	1626	2	Standard
	Sb	**123**	**0.061**	ug/L	0.003	4	54	1228	4	Standard
	Ba	**135**	**0.011**	ug/L	0.001	4	46	124	3	Standard
	Ba	**137**	**0.010**	ug/L	0.001	5	88	201	2	Standard
>	**Tb**	**159**		ug/L			2858511	2856931	0	Standard
	Tl	**205**	**0.003**	ug/L	0.000	3	73	304	2	Standard
	Pb	**208**	**0.002**	ug/L	0.000	5	373	639	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:44:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1203868	2	Standard
	Be	**9**	**0.001**	ug/L	0.001	66	6	15	38	Standard
	C	**13**		ug/L			33459	41415	0	Standard
	Cl	**37**		ug/L			8651601	8568871	0	Standard
>	**Sc**	**45**		ug/L			1570082	1492953	0	Standard
	V	**51**	**0.008**	ug/L	0.003	31	8248	8100	1	Standard
	V-1	**51**	**0.022**	ug/L	0.001	2	224	898	1	Standard
	[redacted]	**52**	**[redacted]**	ug/L	0.007	7	24127	25455	1	Standard
	Cr	**53**	**0.143**	ug/L	0.005	3	160	573	2	Standard
	[redacted]	**55**	**[redacted]**	ug/L	0.000	4	777	1054	1	Standard
>	**Ge**	**72**		ug/L			104575	104518	1	KED
	[redacted]	**60**	**-[redacted]**	ug/L	0.004	970	14	13	47	KED
	Ni	**62**	**0.002**	ug/L	0.011	450	4	5	57	KED
	[redacted]	**63**	**[redacted]**	ug/L	0.003	27	101	149	9	KED
	Cu	**65**	**0.005**	ug/L	0.006	120	59	71	19	KED
	[redacted]	**66**	**[redacted]**	ug/L	0.020	13	59	164	7	KED
	Zn	**67**	**0.182**	ug/L	0.079	43	13	35	27	KED
	[redacted]	**75**	**-[redacted]**	ug/L	0.004	410	3	2	44	KED
	[redacted]	**78**	**[redacted]**	ug/L	0.021	17	11	15	4	KED
	Y	**89**		ug/L			967000	922488	0	Standard
	Kr	**83**		ug/L			64	66	7	Standard
>	**In-1**	**115**		ug/L			29935	29024	1	KED
	[redacted]	**111**	**-[redacted]**	ug/L	0.001	61	2	1	34	KED
	Cd	**114**	**-0.001**	ug/L	0.001	162	1	0	221	KED
>	**In**	**115**		ug/L			1886335	1831781	1	Standard
	[redacted]	**107**	**[redacted]**	ug/L	0.000	6	64	105	3	Standard
	Sb	**121**	**0.020**	ug/L	0.001	3	64	616	1	Standard
	Sb	**123**	**0.023**	ug/L	0.002	7	54	495	5	Standard
	[redacted]	**135**	**-[redacted]**	ug/L	0.001	48	46	26	32	Standard
	Ba	**137**	**-0.003**	ug/L	0.001	17	88	49	13	Standard
>	**Tb**	**159**		ug/L			2858511	2850774	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	20	73	224	14	Standard
	[redacted]	**208**	**[redacted]**	ug/L	0.000	64	373	450	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:49:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1219826	0	Standard
	Be	**9**	**24.644**	ug/L	0.525	2	6	150599	1	Standard
	C	**13**		ug/L			33459	41569	0	Standard
	Cl	**37**		ug/L			8651601	8794724	0	Standard
>	**Sc**	**45**		ug/L			1570082	1519483	0	Standard
	V	**51**	**23.984**	ug/L	0.284	1	8248	762684	0	Standard
	V-1	**51**	**24.303**	ug/L	0.345	1	224	763265	1	Standard
	[redacted]	**52**	**[redacted]**	ug/L	0.132	0	24127	682043	0	Standard
	Cr	**53**	**25.828**	ug/L	0.335	1	160	77256	1	Standard
	[redacted]	**55**	**[redacted]**	ug/L	0.146	0	777	1042627	0	Standard
>	**Ge**	**72**		ug/L			104575	102013	1	KED
	[redacted]	**60**	**[redacted]**	ug/L	0.375	1	14	43517	0	KED
	Ni	**62**	**26.031**	ug/L	0.796	3	4	7091	1	KED
	[redacted]	**63**	**[redacted]**	ug/L	0.332	1	101	129671	1	KED
	Cu	**65**	**26.783**	ug/L	0.195	0	59	65403	1	KED
	[redacted]	**66**	**[redacted]**	ug/L	1.017	1	59	59830	1	KED
	Zn	**67**	**81.071**	ug/L	0.480	0	13	9389	1	KED
	[redacted]	**75**	**[redacted]**	ug/L	0.066	0	3	8498	1	KED
	[redacted]	**78**	**[redacted]**	ug/L	0.802	0	11	3101	0	KED
	Y	**89**		ug/L			967000	920416	1	Standard
	Kr	**83**		ug/L			64	67	16	Standard
>	**In-1**	**115**		ug/L			29935	27349	0	KED
	[redacted]	**111**	**[redacted]**	ug/L	0.177	0	2	9905	0	KED
	Cd	**114**	**26.718**	ug/L	0.286	1	1	25968	1	KED
>	**In**	**115**		ug/L			1886335	1827903	1	Standard
	[redacted]	**107**	**[redacted]**	ug/L	1.291	5	64	630151	3	Standard
	Sb	**121**	**0.012**	ug/L	0.001	9	64	396	9	Standard
	Sb	**123**	**0.013**	ug/L	0.002	14	54	308	11	Standard
	[redacted]	**135**	**[redacted]**	ug/L	0.333	1	46	170215	0	Standard
	Ba	**137**	**23.641**	ug/L	0.369	1	88	284059	0	Standard
>	**Tb**	**159**		ug/L			2858511	2881535	0	Standard
	Tl	**205**	**27.476**	ug/L	0.114	0	73	2536013	0	Standard
	[redacted]	**208**	**[redacted]**	ug/L	0.069	0	373	3137912	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 16:58:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1216213	3	Standard
	Be	**9**	**0.002**	ug/L	0.001	59	6	19	39	Standard
	C	**13**		ug/L			33459	42421	1	Standard
	Cl	**37**		ug/L			8651601	9954452	1	Standard
>	**Sc**	**45**		ug/L			1570082	1535811	1	Standard
	V	**51**	**-0.006**	ug/L	0.015	240	8248	7873	5	Standard
	V-1	**51**	**0.747**	ug/L	0.012	1	224	23914	2	Standard
		52		ug/L	0.016	6	24127	30536	1	Standard
	Cr	**53**	**2.791**	ug/L	0.026	0	160	8580	1	Standard
		55		ug/L	0.011	0	777	102551	0	Standard
>	**Ge**	**72**		ug/L			104575	102124	0	KED
		60		ug/L	0.026	4	14	904	5	KED
	Ni	**62**	**0.490**	ug/L	0.039	7	4	137	7	KED
		63		ug/L	0.011	2	101	2052	2	KED
	Cu	**65**	**0.390**	ug/L	0.015	3	59	1011	3	KED
		66		ug/L	0.128	1	59	7145	1	KED
	Zn	**67**	**10.056**	ug/L	0.667	6	13	1177	6	KED
		75		ug/L	0.004	1	3	97	1	KED
		78		ug/L	0.040	17	11	19	7	KED
	Y	**89**		ug/L			967000	932240	1	Standard
	Kr	**83**		ug/L			64	74	35	Standard
>	**In-1**	**115**		ug/L			29935	27998	1	KED
		111		ug/L	0.030	143	2	10	111	KED
	Cd	**114**	**0.026**	ug/L	0.023	89	1	27	86	KED
>	**In**	**115**		ug/L			1886335	1786140	0	Standard
		107		ug/L	0.000	14	64	146	7	Standard
	Sb	**121**	**0.089**	ug/L	0.002	2	64	2407	2	Standard
	Sb	**123**	**0.096**	ug/L	0.003	2	54	1883	2	Standard
		135		ug/L	0.277	1	46	123813	0	Standard
	Ba	**137**	**17.595**	ug/L	0.216	1	88	206622	0	Standard
>	**Tb**	**159**		ug/L			2858511	2865524	1	Standard
	Tl	**205**	**0.002**	ug/L	0.000	18	73	293	13	Standard
		208		ug/L	0.001	2	373	3268	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:03:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1206727	2	Standard
	Be	**9**	**0.007**	ug/L	0.001	20	6	48	17	Standard
	C	**13**		ug/L			33459	37299	0	Standard
	Cl	**37**		ug/L			8651601	8828565	0	Standard
>	**Sc**	**45**		ug/L			1570082	1492461	1	Standard
	V	**51**	**0.289**	ug/L	0.028	9	8248	16755	4	Standard
	V-1	**51**	**0.479**	ug/L	0.005	1	224	14984	0	Standard
	Cr	**52**	**1.408**	ug/L	0.086	6	24127	59722	2	Standard
	Cr	**53**	**2.056**	ug/L	0.053	2	160	6182	2	Standard
	Mn	**55**	**15.011**	ug/L	0.144	0	777	608054	0	Standard
>	**Ge**	**72**		ug/L			104575	101754	2	KED
	Ni	**60**	**3.145**	ug/L	0.103	3	14	5230	1	KED
	Ni	**62**	**3.038**	ug/L	0.160	5	4	829	6	KED
		63		ug/L	0.070	1	101	22234	1	KED
	Cu	**65**	**4.492**	ug/L	0.139	3	59	10985	2	KED
	Zn	**66**	**321.445**	ug/L	7.377	2	59	225386	0	KED
	Zn	**67**	**298.422**	ug/L	2.042	0	13	34434	1	KED
	As	**75**	**0.357**	ug/L	0.031	8	3	123	6	KED
	Se	**78**	**0.132**	ug/L	0.058	43	11	15	14	KED
	Y	**89**		ug/L			967000	920133	0	Standard
	Kr	**83**		ug/L			64	76	38	Standard
>	**In-1**	**115**		ug/L			29935	27542	1	KED
	Cd	**111**	**0.150**	ug/L	0.032	21	2	59	19	KED
	Cd	**114**	**0.182**	ug/L	0.027	14	1	179	13	KED
>	**In**	**115**		ug/L			1886335	1793672	1	Standard
	Ag	**107**	**0.010**	ug/L	0.001	6	64	316	5	Standard
	Sb	**121**	**0.085**	ug/L	0.006	6	64	2320	5	Standard
	Sb	**123**	**0.086**	ug/L	0.002	2	54	1694	1	Standard
	Ba	**135**	**1.521**	ug/L	0.014	0	46	10741	0	Standard
	Ba	**137**	**1.474**	ug/L	0.024	1	88	17464	2	Standard
>	**Tb**	**159**		ug/L			2858511	2849724	1	Standard
	Tl	**205**	**0.002**	ug/L	0.000	26	73	241	19	Standard
	Pb	**208**	**2.292**	ug/L	0.022	0	373	282758	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:08:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1193634	1	Standard
	Be	**9**	**0.001**	ug/L	0.001	91	6	15	50	Standard
	C	**13**		ug/L			33459	36463	1	Standard
	Cl	**37**		ug/L			8651601	9806905	0	Standard
>	**Sc**	**45**		ug/L			1570082	1528924	1	Standard
	V	**51**	**0.186**	ug/L	0.016	8	8248	13922	5	Standard
	V-1	**51**	**1.136**	ug/L	0.002	0	224	36118	1	Standard
	Cr	**52**	**1.195**	ug/L	0.029	2	24127	55479	0	Standard
	Cr	**53**	**4.399**	ug/L	0.083	1	160	13367	0	Standard
	Mn	**55**	**3.943**	ug/L	0.061	1	777	164162	0	Standard
>	**Ge**	**72**		ug/L			104575	101241	0	KED
	Ni	**60**	**1.248**	ug/L	0.020	1	14	2075	1	KED
	Ni	**62**	**1.281**	ug/L	0.073	5	4	350	5	KED
	[redacted]	**63**	[redacted]	ug/L	0.041	2	101	7042	2	KED
	Cu	**65**	**1.451**	ug/L	0.022	1	59	3570	1	KED
	Zn	**66**	**128.722**	ug/L	0.383	0	59	89865	0	KED
	[redacted]	[redacted]	[redacted]	ug/L	2.230	1	13	13863	1	KED
	As	**75**	**0.266**	ug/L	0.015	5	3	92	5	KED
	Se	**78**	**0.211**	ug/L	0.035	16	11	18	7	KED
	Y	**89**		ug/L			967000	912629	2	Standard
	Kr	**83**		ug/L			64	64	16	Standard
>	**In-1**	**115**		ug/L			29935	27087	1	KED
	Cd	**111**	**0.075**	ug/L	0.015	19	2	30	18	KED
	Cd	**114**	**0.078**	ug/L	0.004	5	1	75	6	KED
>	**In**	**115**		ug/L			1886335	1789834	0	Standard
	Ag	**107**	**0.004**	ug/L	0.000	8	64	167	4	Standard
	Sb	**121**	**0.094**	ug/L	0.002	2	64	2557	1	Standard
	Sb	**123**	**0.097**	ug/L	0.002	2	54	1918	2	Standard
	Ba	**135**	**1.632**	ug/L	0.028	1	46	11500	1	Standard
	Ba	**137**	**1.617**	ug/L	0.022	1	88	19110	1	Standard
>	**Tb**	**159**		ug/L			2858511	2847339	0	Standard
	Tl	**205**	**0.003**	ug/L	0.000	8	73	364	6	Standard
	Pb	**208**	**0.271**	ug/L	0.001	0	373	33729	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:13:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1192188	3	Standard
	Be	**9**	**0.003**	ug/L	0.002	49	6	26	35	Standard
	C	**13**		ug/L			33459	37792	1	Standard
	Cl	**37**		ug/L			8651601	8837749	0	Standard
>	**Sc**	**45**		ug/L			1570082	1474923	1	Standard
	V	**51**	**0.146**	ug/L	0.010	6	8248	12194	2	Standard
	V-1	**51**	**0.331**	ug/L	0.005	1	224	10288	0	Standard
	Cr	**52**	**0.631**	ug/L	0.012	1	24127	38969	1	Standard
	Cr	**53**	**1.257**	ug/L	0.029	2	160	3794	1	Standard
	Mn	**55**	**8.752**	ug/L	0.020	0	777	350706	1	Standard
>	**Ge**	**72**		ug/L			104575	99589	0	KED
	Ni	**60**	**1.537**	ug/L	0.043	2	14	2510	3	KED
	Ni	**62**	**1.523**	ug/L	0.139	9	4	408	8	KED
	[redacted]	**63**	[redacted]	ug/L	0.018	1	101	7971	1	KED
	Cu	**65**	**1.608**	ug/L	0.020	1	59	3887	1	KED
	Zn	**66**	**149.832**	ug/L	0.257	0	59	102884	0	KED
	[redacted]	[redacted]	[redacted]	ug/L	1.915	1	13	15843	0	KED
	As	**75**	**0.136**	ug/L	0.009	6	3	47	5	KED
	Se	**78**	**0.149**	ug/L	0.069	46	11	16	15	KED
	Y	**89**		ug/L			967000	916142	0	Standard
	Kr	**83**		ug/L			64	67	16	Standard
>	**In-1**	**115**		ug/L			29935	27092	1	KED
	Cd	**111**	**0.048**	ug/L	0.013	26	2	20	24	KED
	Cd	**114**	**0.042**	ug/L	0.017	40	1	41	39	KED
>	**In**	**115**		ug/L			1886335	1779119	1	Standard
	Ag	**107**	**0.002**	ug/L	0.000	19	64	104	9	Standard
	Sb	**121**	**0.062**	ug/L	0.003	4	64	1692	2	Standard
	Sb	**123**	**0.066**	ug/L	0.004	5	54	1313	3	Standard
	Ba	**135**	**1.160**	ug/L	0.018	1	46	8137	1	Standard
	Ba	**137**	**1.157**	ug/L	0.020	1	88	13612	0	Standard
>	**Tb**	**159**		ug/L			2858511	2797318	1	Standard
	Tl	**205**	**0.001**	ug/L	0.000	18	73	191	10	Standard
	Pb	**208**	**0.561**	ug/L	0.011	2	373	68249	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:17:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1126761	10	Standard
	Be	**9**	**0.003**	ug/L	0.001	53	6	20	31	Standard
	C	**13**		ug/L			33459	36782	0	Standard
	Cl	**37**		ug/L			8651601	8786495	3	Standard
>	**Sc**	**45**		ug/L			1570082	1387394	13	Standard
	V	**51**	**0.085**	ug/L	0.039	45	8248	9640	2	Standard
	V-1	**51**	**0.289**	ug/L	0.037	12	224	8389	1	Standard
	Cr	**52**	**0.467**	ug/L	0.155	33	24127	32354	2	Standard
	Cr	**53**	**1.155**	ug/L	0.150	13	160	3255	2	Standard
	Mn	**55**	**2.756**	ug/L	0.354	12	777	103191	1	Standard
>	**Ge**	**72**		ug/L			104575	100727	1	KED
	Ni	**60**	**0.455**	ug/L	0.021	4	14	761	4	KED
	Ni	**62**	**0.449**	ug/L	0.091	20	4	125	20	KED
		63		ug/L	0.015	1	101	4740	0	KED
	Cu	**65**	**0.933**	ug/L	0.007	0	59	2304	1	KED
		66		ug/L	0.801	1	59	29984	1	KED
	Zn	**67**	**40.211**	ug/L	2.141	5	13	4603	4	KED
	As	**75**	**0.127**	ug/L	0.024	18	3	45	16	KED
	Se	**78**	**0.175**	ug/L	0.073	41	11	17	15	KED
	Y	**89**		ug/L			967000	859294	12	Standard
	Kr	**83**		ug/L			64	84	27	Standard
>	**In-1**	**115**		ug/L			29935	26291	1	KED
	Cd	**111**	**0.010**	ug/L	0.005	53	2	5	33	KED
	Cd	**114**	**0.013**	ug/L	0.000	1	1	13	0	KED
>	**In**	**115**		ug/L			1886335	1659828	11	Standard
	Ag	**107**	**0.001**	ug/L	0.001	68	64	85	23	Standard
	Sb	**121**	**0.051**	ug/L	0.003	6	64	1305	6	Standard
	Sb	**123**	**0.052**	ug/L	0.001	1	54	967	10	Standard
	Ba	**135**	**1.780**	ug/L	0.240	13	46	11503	1	Standard
	Ba	**137**	**1.801**	ug/L	0.228	12	88	19535	0	Standard
>	**Tb**	**159**		ug/L			2858511	2667842	11	Standard
	Tl	**205**	**0.001**	ug/L	0.000	26	73	146	5	Standard
	Pb	**208**	**0.101**	ug/L	0.010	10	373	11957	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:23:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1171756	3	Standard
	Be	**9**	**0.001**	ug/L	0.001	122	6	12	50	Standard
	C	**13**		ug/L			33459	117557	0	Standard
	Cl	**37**		ug/L			8651601	8842011	0	Standard
>	**Sc**	**45**		ug/L			1570082	1494334	0	Standard
	V	**51**	**-0.224**	ug/L	0.200	89	8248	904	683	Standard
	V-1	**51**	**0.136**	ug/L	0.005	3	224	4408	3	Standard
		52		ug/L	0.353	0	24127	1279972	0	Standard
	Cr	**53**	**49.594**	ug/L	0.751	1	160	145757	1	Standard
		55		ug/L	0.200	0	777	1071038	0	Standard
>	**Ge**	**72**		ug/L			104575	96200	1	KED
		60		ug/L	0.035	1	14	4634	0	KED
	Ni	**62**	**2.899**	ug/L	0.137	4	4	748	5	KED
		63		ug/L	0.052	3	101	7057	2	KED
	Cu	**65**	**1.562**	ug/L	0.052	3	59	3649	3	KED
		66		ug/L	1.391	2	59	40896	1	KED
	Zn	**67**	**57.356**	ug/L	1.530	2	13	6266	1	KED
	As	**75**	**0.151**	ug/L	0.018	11	3	51	11	KED
	Se	**78**	**0.169**	ug/L	0.111	65	11	16	23	KED
	Y	**89**		ug/L			967000	920274	2	Standard
	Kr	**83**		ug/L			64	70	26	Standard
>	**In-1**	**115**		ug/L			29935	26025	0	KED
		111		ug/L	0.074	8	2	330	7	KED
	Cd	**114**	**0.961**	ug/L	0.054	5	1	889	5	KED
>	**In**	**115**		ug/L			1886335	1746253	1	Standard
	Ag	**107**	**0.027**	ug/L	0.002	7	64	718	6	Standard
	Sb	**121**	**0.156**	ug/L	0.008	5	64	4074	5	Standard
	Sb	**123**	**0.166**	ug/L	0.003	1	54	3144	2	Standard
	Ba	**135**	**4.854**	ug/L	0.058	1	46	33282	0	Standard
	Ba	**137**	**4.844**	ug/L	0.045	0	88	55673	0	Standard
>	**Tb**	**159**		ug/L			2858511	2860745	0	Standard
	Tl	**205**	**0.000**	ug/L	0.000	43	73	111	14	Standard
		208		ug/L	0.002	0	373	27046	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:29:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1123976	1	Standard
	Be	**9**	**0.001**	ug/L	0.001	56	6	13	31	Standard
	C	**13**		ug/L			33459	115373	1	Standard
	Cl	**37**		ug/L			8651601	8782645	0	Standard
>	**Sc**	**45**		ug/L			1570082	1506013	0	Standard
	V	**51**	**-0.016**	ug/L	0.024	145	8248	7400	10	Standard
	V-1	**51**	**0.095**	ug/L	0.001	1	224	3171	1	Standard
		52		ug/L	0.182	1	24127	298687	1	Standard
	Cr	**53**	**10.897**	ug/L	0.111	1	160	32399	1	Standard
	Mn	**55**	**79.341**	ug/L	0.865	1	777	3240234	1	Standard
>	**Ge**	**72**		ug/L			104575	92214	0	KED
		60		ug/L	0.077	2	14	3911	3	KED
	Ni	**62**	**2.502**	ug/L	0.086	3	4	619	2	KED
		63		ug/L	0.037	7	101	2393	6	KED
	Cu	**65**	**0.498**	ug/L	0.026	5	59	1149	4	KED
		66		ug/L	0.101	1	59	5655	0	KED
	Zn	**67**	**8.447**	ug/L	0.267	3	13	895	2	KED
	As	**75**	**0.118**	ug/L	0.020	17	3	38	15	KED
	Se	**78**	**0.124**	ug/L	0.091	73	11	13	21	KED
	Y	**89**		ug/L			967000	918307	0	Standard
	Kr	**83**		ug/L			64	78	15	Standard
>	**In-1**	**115**		ug/L			29935	25654	1	KED
		111		ug/L	0.017	13	2	45	13	KED
	Cd	**114**	**0.119**	ug/L	0.004	3	1	109	4	KED
>	**In**	**115**		ug/L			1886335	1737808	0	Standard
	Ag	**107**	**0.007**	ug/L	0.001	16	64	227	12	Standard
	Sb	**121**	**0.126**	ug/L	0.002	1	64	3305	1	Standard
	Sb	**123**	**0.135**	ug/L	0.004	2	54	2553	3	Standard
	Ba	**135**	**5.726**	ug/L	0.042	0	46	39068	1	Standard
	Ba	**137**	**5.686**	ug/L	0.046	0	88	65027	0	Standard
>	**Tb**	**159**		ug/L			2858511	2818863	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	15	73	123	6	Standard
		208		ug/L	0.001	1	373	6436	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:34:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1227418	1	Standard
	Be	**9**	**0.003**	ug/L	0.001	37	6	24	25	Standard
	C	**13**		ug/L			33459	36788	0	Standard
	Cl	**37**		ug/L			8651601	9077886	0	Standard
>	**Sc**	**45**		ug/L			1570082	1514969	0	Standard
	V	**51**	**0.056**	ug/L	0.009	16	8248	9721	3	Standard
	V-1	**51**	**0.114**	ug/L	0.002	1	224	3794	1	Standard
	Cr	**52**	**0.300**	ug/L	0.022	7	24127	31241	1	Standard
	Cr	**53**	**0.497**	ug/L	0.013	2	160	1634	1	Standard
	Mn	**55**	**3.800**	ug/L	0.057	1	777	156816	1	Standard
>	**Ge**	**72**		ug/L			104575	99282	0	KED
	Ni	**60**	**0.806**	ug/L	0.046	5	14	1319	5	KED
	Ni	**62**	**0.713**	ug/L	0.077	10	4	193	10	KED
	Cu	**63**	**1.146**	ug/L	0.042	3	101	5493	3	KED
	Cu	**65**	**1.130**	ug/L	0.035	3	59	2740	3	KED
		66		ug/L	1.115	1	59	55496	0	KED
	Zn	**67**	**75.360**	ug/L	2.718	3	13	8495	3	KED
	As	**75**	**0.085**	ug/L	0.010	11	3	31	10	KED
	Se	**78**	**0.021**	ug/L	0.034	158	11	11	11	KED
	Y	**89**		ug/L			967000	931819	2	Standard
	Kr	**83**		ug/L			64	72	11	Standard
>	**In-1**	**115**		ug/L			29935	27218	1	KED
	Cd	**111**	**0.062**	ug/L	0.008	12	2	25	12	KED
	Cd	**114**	**0.048**	ug/L	0.010	21	1	47	20	KED
>	**In**	**115**		ug/L			1886335	1807166	1	Standard
	Ag	**107**	**0.003**	ug/L	0.001	28	64	125	13	Standard
	Sb	**121**	**0.024**	ug/L	0.002	8	64	689	8	Standard
	Sb	**123**	**0.022**	ug/L	0.002	9	54	486	9	Standard
	Ba	**135**	**0.354**	ug/L	0.004	1	46	2553	2	Standard
	Ba	**137**	**0.363**	ug/L	0.017	4	88	4393	3	Standard
>	**Tb**	**159**		ug/L			2858511	2839468	0	Standard
	Tl	**205**	**0.000**	ug/L	0.000	11	73	107	2	Standard
	Pb	**208**	**0.582**	ug/L	0.006	1	373	71787	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:40:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1171964	1	Standard
	Be	**9**	**48.202**	ug/L	0.790	1	6	283014	1	Standard
	C	**13**		ug/L			33459	31555	0	Standard
	Cl	**37**		ug/L			8651601	9104718	1	Standard
>	**Sc**	**45**		ug/L			1570082	1488979	0	Standard
	V	**51**	**46.593**	ug/L	0.474	1	8248	1444655	1	Standard
	V-1	**51**	**47.172**	ug/L	0.348	0	224	1451619	1	Standard
	Cr	**52**	**47.523**	ug/L	0.680	1	24127	1262559	2	Standard
	Cr	**53**	**49.478**	ug/L	0.393	0	160	144896	1	Standard
	Mn	**55**	**49.922**	ug/L	1.865	3	777	2016235	4	Standard
>	**Ge**	**72**		ug/L			104575	98368	1	KED
	Ni	**60**	**49.698**	ug/L	0.386	0	14	79741	0	KED
	Ni	**62**	**49.803**	ug/L	0.436	0	4	13080	0	KED
	Cu	**63**	**50.270**	ug/L	0.466	0	101	234575	0	KED
	Cu	**65**	**49.774**	ug/L	0.474	0	59	117148	0	KED
	Zn	**66**	**50.756**	ug/L	0.263	0	59	34463	1	KED
	Zn	**67**	**51.016**	ug/L	1.443	2	13	5701	2	KED
	As	**75**	**49.185**	ug/L	0.381	0	3	16031	0	KED
	Se	**78**	**50.377**	ug/L	1.209	2	11	1837	1	KED
	Y	**89**		ug/L			967000	928011	0	Standard
	Kr	**83**		ug/L			64	73	21	Standard
>	**In-1**	**115**		ug/L			29935	26594	1	KED
	Cd	**111**	**51.125**	ug/L	0.602	1	2	18694	0	KED
	Cd	**114**	**51.410**	ug/L	0.585	1	1	48584	0	KED
>	**In**	**115**		ug/L			1886335	1771723	0	Standard
	Ag	**107**	**49.230**	ug/L	0.429	0	64	1211889	1	Standard
	Sb	**121**	**46.508**	ug/L	0.500	1	64	1217831	1	Standard
	Sb	**123**	**48.591**	ug/L	0.166	0	54	921370	0	Standard
	Ba	**135**	**46.907**	ug/L	0.517	1	46	325956	0	Standard
	Ba	**137**	**46.973**	ug/L	0.619	1	88	547067	1	Standard
>	**Tb**	**159**		ug/L			2858511	2894437	0	Standard
	Tl	**205**	**50.987**	ug/L	0.615	1	73	4726982	1	Standard
	Pb	**208**	**49.284**	ug/L	0.131	0	373	6167422	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:48:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1194980	0	Standard
	Be	**9**	**0.004**	ug/L	0.001	35	6	31	27	Standard
	C	**13**		ug/L			33459	32681	0	Standard
	Cl	**37**		ug/L			8651601	8897585	0	Standard
>	**Sc**	**45**		ug/L			1570082	1471889	0	Standard
	V	**51**	**-0.010**	ug/L	0.003	27	8248	7418	0	Standard
	V-1	**51**	**0.012**	ug/L	0.001	11	224	568	6	Standard
	Cr	**52**	**-0.034**	ug/L	0.011	32	24127	21729	0	Standard
	Cr	**53**	**0.040**	ug/L	0.006	15	160	264	6	Standard
	Mn	**55**	**0.009**	ug/L	0.001	11	777	1078	3	Standard
>	**Ge**	**72**		ug/L			104575	101275	0	KED
	Ni	**60**	**-0.000**	ug/L	0.001	1321	14	13	15	KED
	Ni	**62**	**0.001**	ug/L	0.004	785	4	4	24	KED
	Cu	**63**	**0.003**	ug/L	0.002	85	101	112	11	KED
	Cu	**65**	**0.000**	ug/L	0.005	2001	59	58	21	KED
	Zn	**66**	**0.057**	ug/L	0.021	37	59	97	14	KED
	Zn	**67**	**0.009**	ug/L	0.039	408	13	14	30	KED
	As	**75**	**0.005**	ug/L	0.010	174	3	4	65	KED
	Se	**78**	**0.134**	ug/L	0.030	22	11	15	7	KED
	Y	**89**		ug/L			967000	925931	1	Standard
	Kr	**83**		ug/L			64	62	15	Standard
>	**In-1**	**115**		ug/L			29935	27941	2	KED
	Cd	**111**	**0.000**	ug/L	0.005	1127	2	2	78	KED
	Cd	**114**	**0.001**	ug/L	0.001	84	1	2	49	KED
>	**In**	**115**		ug/L			1886335	1802904	0	Standard
	Ag	**107**	**0.005**	ug/L	0.001	17	64	197	12	Standard
	Sb	**121**	**0.042**	ug/L	0.002	4	64	1171	4	Standard
	Sb	**123**	**0.046**	ug/L	0.000	0	54	945	0	Standard
	Ba	**135**	**0.012**	ug/L	0.001	5	46	126	3	Standard
	Ba	**137**	**0.011**	ug/L	0.002	16	88	211	9	Standard
>	**Tb**	**159**		ug/L			2858511	2839972	0	Standard
	Tl	**205**	**0.004**	ug/L	0.001	20	73	406	16	Standard
	Pb	**208**	**0.004**	ug/L	0.001	21	373	853	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:54:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1165663	2	Standard
	Be	**9**	**0.002**	ug/L	0.002	86	6	17	50	Standard
	C	**13**		ug/L			33459	45217	1	Standard
	Cl	**37**		ug/L			8651601	8842231	0	Standard
>	**Sc**	**45**		ug/L			1570082	1485432	1	Standard
	V	**51**	**-0.001**	ug/L	0.004	623	8248	7781	1	Standard
	V-1	**51**	**0.019**	ug/L	0.001	3	224	792	2	Standard
	Cr	**52**	**0.007**	ug/L	0.015	218	24127	22998	1	Standard
	Cr	**53**	**0.072**	ug/L	0.003	4	160	363	3	Standard
	Mn	**55**	**0.019**	ug/L	0.001	6	777	1509	3	Standard
>	**Ge**	**72**		ug/L			104575	101133	0	KED
	Ni	**60**	**0.002**	ug/L	0.005	274	14	17	48	KED
	Ni	**62**	**0.005**	ug/L	0.000	1	4	5	0	KED
	Cu	**63**	**0.005**	ug/L	0.003	52	101	123	10	KED
	Cu	**65**	**-0.001**	ug/L	0.005	681	59	55	22	KED
	Zn	**66**	**0.202**	ug/L	0.020	10	59	198	7	KED
	Zn	**67**	**0.220**	ug/L	0.011	5	13	38	2	KED
	As	**75**	**0.007**	ug/L	0.002	32	3	5	13	KED
	Se	**78**	**0.058**	ug/L	0.042	72	11	12	12	KED
	Y	**89**		ug/L			967000	926226	1	Standard
	Kr	**83**		ug/L			64	62	25	Standard
>	**In-1**	**115**		ug/L			29935	27485	1	KED
	Cd	**111**	**0.003**	ug/L	0.001	48	2	3	15	KED
	Cd	**114**	**0.005**	ug/L	0.007	144	1	5	118	KED
>	**In**	**115**		ug/L			1886335	1809784	0	Standard
		107		ug/L	0.001	49	64	102	19	Standard
	Sb	**121**	**0.015**	ug/L	0.001	8	64	461	6	Standard
	Sb	**123**	**0.014**	ug/L	0.001	3	54	331	2	Standard
	Ba	**135**	**-0.000**	ug/L	0.000	92	46	41	7	Standard
	Ba	**137**	**-0.002**	ug/L	0.001	46	88	60	17	Standard
>	**Tb**	**159**		ug/L			2858511	2837284	1	Standard
	Tl	**205**	**0.002**	ug/L	0.000	9	73	215	6	Standard
	Pb	**208**	**0.003**	ug/L	0.000	9	373	685	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 17:58:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1140920	2	Standard
	Be	**9**	**25.493**	ug/L	0.178	0	6	145711	1	Standard
	C	**13**		ug/L			33459	45661	1	Standard
	Cl	**37**		ug/L			8651601	8864435	0	Standard
>	**Sc**	**45**		ug/L			1570082	1474724	1	Standard
	V	**51**	**24.323**	ug/L	0.167	0	8248	750602	1	Standard
	V-1	**51**	**24.610**	ug/L	0.183	0	224	750124	1	Standard
	Cr	**52**	**24.862**	ug/L	0.525	2	24127	664850	1	Standard
	Cr	**53**	**25.830**	ug/L	0.612	2	160	74975	1	Standard
	Mn	**55**	**25.720**	ug/L	0.552	2	777	1028792	1	Standard
>	**Ge**	**72**		ug/L			104575	98927	0	KED
	Ni	**60**	**26.490**	ug/L	0.240	0	14	42752	0	KED
	Ni	**62**	**26.114**	ug/L	0.314	1	4	6900	0	KED
	Cu	**63**	**26.714**	ug/L	0.295	1	101	125416	1	KED
	Cu	**65**	**26.435**	ug/L	0.153	0	59	62602	0	KED
	Zn	**66**	**84.794**	ug/L	1.596	1	59	57860	1	KED
	Zn	**67**	**81.446**	ug/L	1.454	1	13	9147	1	KED
	As	**75**	**25.099**	ug/L	0.287	1	3	8229	0	KED
	Se	**78**	**81.164**	ug/L	0.353	0	11	2971	0	KED
	Y	**89**		ug/L			967000	910288	1	Standard
	Kr	**83**		ug/L			64	72	2	Standard
>	**In-1**	**115**		ug/L			29935	27117	0	KED
	Cd	**111**	**26.225**	ug/L	0.651	2	2	9779	2	KED
	Cd	**114**	**26.016**	ug/L	0.454	1	1	25070	1	KED
>	**In**	**115**		ug/L			1886335	1763589	1	Standard
		107		ug/L	0.299	1	64	617643	2	Standard
	Sb	**121**	**24.301**	ug/L	0.426	1	64	633340	0	Standard
	Sb	**123**	**25.491**	ug/L	0.453	1	54	481086	0	Standard
	Ba	**135**	**24.020**	ug/L	0.468	1	46	166142	0	Standard
	Ba	**137**	**23.984**	ug/L	0.377	1	88	278053	0	Standard
>	**Tb**	**159**		ug/L			2858511	2816461	0	Standard
	Tl	**205**	**27.756**	ug/L	0.416	1	73	2503783	0	Standard
	Pb	**208**	**25.257**	ug/L	0.314	1	373	3075413	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:03:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1215082	3	Standard
	Be	**9**	**0.003**	ug/L	0.002	56	6	27	39	Standard
	C	**13**		ug/L			33459	45289	1	Standard
	Cl	**37**		ug/L			8651601	10086334	1	Standard
>	**Sc**	**45**		ug/L			1570082	1508157	0	Standard
	V	**51**	**-0.022**	ug/L	0.007	31	8248	7250	2	Standard
	V-1	**51**	**0.786**	ug/L	0.024	3	224	24724	2	Standard
		52		ug/L	0.003	1	24127	29271	0	Standard
	Cr	**53**	**2.950**	ug/L	0.088	2	160	8895	2	Standard
		55		ug/L	0.026	1	777	103305	0	Standard
>	**Ge**	**72**		ug/L			104575	97547	0	KED
		60		ug/L	0.042	7	14	866	7	KED
	Ni	**62**	**0.565**	ug/L	0.047	8	4	151	7	KED
		63		ug/L	0.027	5	101	2145	5	KED
	Cu	**65**	**0.440**	ug/L	0.018	4	59	1082	3	KED
		66		ug/L	0.120	1	59	6993	0	KED
	Zn	**67**	**10.901**	ug/L	0.283	2	13	1218	2	KED
		75		ug/L	0.016	5	3	96	5	KED
		78		ug/L	0.106	59	11	16	22	KED
	Y	**89**		ug/L			967000	917027	2	Standard
	Kr	**83**		ug/L			64	70	10	Standard
>	**In-1**	**115**		ug/L			29935	26624	0	KED
		111		ug/L	0.005	106	2	3	43	KED
	Cd	**114**	**0.007**	ug/L	0.000	1	1	7	0	KED
>	**In**	**115**		ug/L			1886335	1748693	1	Standard
		107		ug/L	0.002	35	64	166	23	Standard
	Sb	**121**	**0.091**	ug/L	0.003	3	64	2409	3	Standard
	Sb	**123**	**0.096**	ug/L	0.006	5	54	1845	4	Standard
		135		ug/L	0.156	0	46	122507	0	Standard
	Ba	**137**	**17.628**	ug/L	0.204	1	88	202671	0	Standard
>	**Tb**	**159**		ug/L			2858511	2848187	0	Standard
	Tl	**205**	**0.003**	ug/L	0.000	13	73	370	11	Standard
		208		ug/L	0.000	0	373	3483	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:08:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1203638	2	Standard
	Be	**9**	**24.766**	ug/L	0.181	0	6	149353	2	Standard
	C	**13**		ug/L			33459	46532	0	Standard
	Cl	**37**		ug/L			8651601	10075034	0	Standard
>	**Sc**	**45**		ug/L			1570082	1504396	1	Standard
	V	**51**	**23.892**	ug/L	0.293	1	8248	752186	0	Standard
	V-1	**51**	**25.124**	ug/L	0.262	1	224	781147	0	Standard
	[redacted]	**52**	**[redacted]**	ug/L	0.357	1	24127	657831	0	Standard
	Cr	**53**	**28.235**	ug/L	0.336	1	160	83596	0	Standard
	[redacted]	**55**	**[redacted]**	ug/L	0.519	1	777	1109861	0	Standard
>	**Ge**	**72**		ug/L			104575	98570	1	KED
	[redacted]	**60**	**[redacted]**	ug/L	0.297	1	14	41647	0	KED
	Ni	**62**	**26.247**	ug/L	0.050	0	4	6910	1	KED
	[redacted]	**63**	**[redacted]**	ug/L	0.314	1	101	122623	0	KED
	Cu	**65**	**25.851**	ug/L	0.185	0	59	60997	0	KED
	[redacted]	**66**	**[redacted]**	ug/L	0.900	1	59	60357	0	KED
	Zn	**67**	**85.218**	ug/L	0.753	0	13	9535	0	KED
	[redacted]	**75**	**[redacted]**	ug/L	0.117	0	3	8159	0	KED
	[redacted]	**78**	**[redacted]**	ug/L	0.894	1	11	2786	0	KED
	Y	**89**		ug/L			967000	907461	0	Standard
	Kr	**83**		ug/L			64	59	17	Standard
>	**In-1**	**115**		ug/L			29935	26421	1	KED
	[redacted]	**111**	**[redacted]**	ug/L	0.409	1	2	9374	0	KED
	Cd	**114**	**25.660**	ug/L	0.503	1	1	24091	1	KED
>	**In**	**115**		ug/L			1886335	1759103	1	Standard
	[redacted]	**107**	**[redacted]**	ug/L	0.508	2	64	593694	0	Standard
	Sb	**121**	**0.087**	ug/L	0.002	2	64	2320	1	Standard
	Sb	**123**	**0.090**	ug/L	0.004	4	54	1753	3	Standard
	[redacted]	**135**	**[redacted]**	ug/L	0.473	1	46	286565	1	Standard
	Ba	**137**	**40.782**	ug/L	0.635	1	88	471554	1	Standard
>	**Tb**	**159**		ug/L			2858511	2821324	1	Standard
	Tl	**205**	**26.957**	ug/L	0.180	0	73	2435922	1	Standard
	[redacted]	**208**	**[redacted]**	ug/L	0.337	1	373	2994146	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:13:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1212047	4	Standard
	Be	**9**	**24.949**	ug/L	0.911	3	6	151344	0	Standard
	C	**13**		ug/L			33459	47301	0	Standard
	Cl	**37**		ug/L			8651601	10168961	0	Standard
>	**Sc**	**45**		ug/L			1570082	1507494	1	Standard
	V	**51**	**24.117**	ug/L	0.356	1	8248	760778	0	Standard
	V-1	**51**	**25.364**	ug/L	0.342	1	224	790221	0	Standard
	[redacted]	**52**	**[redacted]**	ug/L	0.406	1	24127	669163	1	Standard
	Cr	**53**	**28.661**	ug/L	0.533	1	160	85031	0	Standard
	[redacted]	**55**	**[redacted]**	ug/L	0.429	1	777	1117048	0	Standard
>	**Ge**	**72**		ug/L			104575	98396	1	KED
	[redacted]	**60**	**[redacted]**	ug/L	0.781	2	14	41803	1	KED
	Ni	**62**	**25.742**	ug/L	0.333	1	4	6765	1	KED
	[redacted]	**63**	**[redacted]**	ug/L	0.170	0	101	124086	0	KED
	Cu	**65**	**26.381**	ug/L	0.267	1	59	62134	1	KED
	[redacted]	**66**	**[redacted]**	ug/L	0.682	0	59	60217	0	KED
	Zn	**67**	**87.087**	ug/L	2.433	2	13	9725	1	KED
	[redacted]	**75**	**[redacted]**	ug/L	0.440	1	3	8352	0	KED
	[redacted]	**78**	**[redacted]**	ug/L	1.348	1	11	2846	0	KED
	Y	**89**		ug/L			967000	900137	1	Standard
	Kr	**83**		ug/L			64	75	11	Standard
>	**In-1**	**115**		ug/L			29935	25940	0	KED
	[redacted]	**111**	**[redacted]**	ug/L	0.161	0	2	9148	0	KED
	Cd	**114**	**25.721**	ug/L	0.362	1	1	23710	0	KED
>	**In**	**115**		ug/L			1886335	1754403	1	Standard
	[redacted]	**107**	**[redacted]**	ug/L	0.056	0	64	588823	0	Standard
	Sb	**121**	**0.086**	ug/L	0.001	0	64	2283	1	Standard
	Sb	**123**	**0.089**	ug/L	0.004	4	54	1719	4	Standard
	[redacted]	**135**	**[redacted]**	ug/L	0.627	1	46	285601	0	Standard
	Ba	**137**	**41.283**	ug/L	0.766	1	88	476059	1	Standard
>	**Tb**	**159**		ug/L			2858511	2829649	1	Standard
	Tl	**205**	**27.143**	ug/L	0.317	1	73	2459841	0	Standard
	[redacted]	**208**	**[redacted]**	ug/L	0.289	1	373	3042967	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:20:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1296177	3	Standard
	Be	**9**	**0.001**	ug/L	0.001	153	6	11	50	Standard
	C	**13**		ug/L			33459	817017	0	Standard
	Cl	**37**		ug/L			8651601	7782984	0	Standard
>	**Sc**	**45**		ug/L			1570082	1339197	1	Standard
	V	**51**	**0.825**	ug/L	0.002	0	8248	29929	1	Standard
	V-1	**51**	**0.312**	ug/L	0.003	1	224	8816	1	Standard
	Cr	**52**	**5.247**	ug/L	0.020	0	24127	143677	1	Standard
				ug/L	0.020	0	160	9483	1	Standard
	Mn	**55**	**78.358**	ug/L	0.693	0	777	2845383	1	Standard
>	**Ge**	**72**		ug/L			104575	75480	0	KED
	Ni	**60**	**20.797**	ug/L	0.070	0	14	25612	0	KED
				ug/L	0.221	1	4	4065	0	KED
		63		ug/L	0.012	1	101	2516	1	KED
	Cu	**65**	**0.669**	ug/L	0.026	3	59	1251	3	KED
		66		ug/L	0.223	2	59	4673	2	KED
	Zn	**67**	**9.187**	ug/L	0.112	1	13	796	1	KED
	As	**75**	**0.379**	ug/L	0.034	9	3	96	8	KED
	Se	**78**	**0.198**	ug/L	0.125	63	11	13	25	KED
	Y	**89**		ug/L			967000	843972	1	Standard
	Kr	**83**		ug/L			64	80	10	Standard
>	**In-1**	**115**		ug/L			29935	22311	0	KED
		111		ug/L	0.020	73	2	10	60	KED
	Cd	**114**	**0.017**	ug/L	0.007	42	1	14	40	KED
>	**In**	**115**		ug/L			1886335	1507964	1	Standard
	Ag	**107**	**0.006**	ug/L	0.001	11	64	186	7	Standard
	Sb	**121**	**0.225**	ug/L	0.002	0	64	5065	1	Standard
	Sb	**123**	**0.237**	ug/L	0.002	1	54	3862	1	Standard
	Ba	**135**	**22.664**	ug/L	0.124	0	46	134063	0	Standard
	Ba	**137**	**22.466**	ug/L	0.133	0	88	222726	0	Standard
>	**Tb**	**159**		ug/L			2858511	2571815	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	11	73	125	4	Standard
		208		ug/L	0.001	1	373	12071	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:26:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1095527	0	Standard
	Be	**9**	**0.006**	ug/L	0.003	55	6	39	46	Standard
	C	**13**		ug/L			33459	188125	0	Standard
	Cl	**37**		ug/L			8651601	7487039	1	Standard
>	**Sc**	**45**		ug/L			1570082	1520543	0	Standard
	V	**51**	**0.272**	ug/L	0.052	19	8248	16557	10	Standard
	V-1	**51**	**0.330**	ug/L	0.003	1	224	10585	0	Standard
	Cr	**52**	**9.122**	ug/L	0.113	1	24127	266351	1	Standard
	Cr	**53**	**9.384**	ug/L	0.067	0	160	28187	0	Standard
	Mn	**55**	**283.948**	ug/L	0.774	0	777	11706015	1	Standard
>	**Ge**	**72**		ug/L			104575	87621	0	KED
	Ni	**60**	**1.422**	ug/L	0.041	2	14	2044	2	KED
	Ni	**62**	**1.382**	ug/L	0.050	3	4	326	3	KED
	Cu	**63**	**0.050**	ug/L	0.006	11	101	292	9	KED
	Cu	**65**	**0.045**	ug/L	0.007	14	59	145	10	KED
	Zn	**66**	**1.638**	ug/L	0.090	5	59	1039	5	KED
	Zn	**67**	**1.416**	ug/L	0.140	9	13	152	9	KED
	As	**75**	**0.013**	ug/L	0.006	49	3	6	28	KED
	Se	**78**	**0.961**	ug/L	0.059	6	11	40	5	KED
	Y	**89**		ug/L			967000	960273	4	Standard
	Kr	**83**		ug/L			64	199	13	Standard
>	**In-1**	**115**		ug/L			29935	24330	1	KED
	Cd	**111**	**0.004**	ug/L	0.003	78	2	3	31	KED
	Cd	**114**	**0.001**	ug/L	0.004	328	1	1	165	KED
>	**In**	**115**		ug/L			1886335	1689958	1	Standard
		107		ug/L	0.027	25	64	2519	24	Standard
	Sb	**121**	**0.103**	ug/L	0.003	3	64	2625	2	Standard
	Sb	**123**	**0.090**	ug/L	0.004	3	54	1683	4	Standard
	Ba	**135**	**0.131**	ug/L	0.005	4	46	911	3	Standard
	Ba	**137**	**0.128**	ug/L	0.011	8	88	1498	6	Standard
>	**Tb**	**159**		ug/L			2858511	3010850	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	10	73	193	6	Standard
	Pb	**208**	**0.009**	ug/L	0.001	7	373	1615	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:37:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1120973	2	Standard
	Be	**9**	**0.005**	ug/L	0.001	20	6	34	17	Standard
	C	**13**		ug/L			33459	346119	1	Standard
	Cl	**37**		ug/L			8651601	8029939	0	Standard
>	**Sc**	**45**		ug/L			1570082	1506180	0	Standard
	V	**51**	**0.527**	ug/L	0.003	0	8248	24360	0	Standard
	V-1	**51**	**0.425**	ug/L	0.003	0	224	13436	1	Standard
		52		ug/L	0.010	0	24127	73922	1	Standard
	Cr	**53**	**1.590**	ug/L	0.025	1	160	4859	2	Standard
	Mn	**55**	**0.223**	ug/L	0.003	1	777	9871	1	Standard
>	**Ge**	**72**		ug/L			104575	86030	0	KED
	Ni	**60**	**1.191**	ug/L	0.019	1	14	1683	1	KED
	Ni	**62**	**1.259**	ug/L	0.084	6	4	292	6	KED
	Cu	**63**	**4.308**	ug/L	0.062	1	101	17659	1	KED
	Cu	**65**	**4.251**	ug/L	0.046	1	59	8796	1	KED
	Zn	**66**	**2.076**	ug/L	0.138	6	59	1280	6	KED
	Zn	**67**	**1.868**	ug/L	0.153	8	13	193	7	KED
	As	**75**	**0.311**	ug/L	0.015	4	3	91	4	KED
	Se	**78**	**0.124**	ug/L	0.072	58	11	13	17	KED
	Y	**89**		ug/L			967000	893140	0	Standard
	Kr	**83**		ug/L			64	118	5	Standard
>	**In-1**	**115**		ug/L			29935	24399	0	KED
	Cd	**111**	**0.831**	ug/L	0.063	7	2	280	8	KED
	Cd	**114**	**0.873**	ug/L	0.015	1	1	757	1	KED
>	**In**	**115**		ug/L			1886335	1582034	0	Standard
		107		ug/L	0.000	19	64	109	9	Standard
	Sb	**121**	**0.017**	ug/L	0.000	2	64	462	2	Standard
	Sb	**123**	**0.021**	ug/L	0.001	6	54	403	5	Standard
	Ba	**135**	**0.130**	ug/L	0.005	4	46	847	3	Standard
	Ba	**137**	**0.125**	ug/L	0.002	1	88	1372	2	Standard
>	**Tb**	**159**		ug/L			2858511	2677704	0	Standard
	Tl	**205**	**0.003**	ug/L	0.001	20	73	320	15	Standard
	Pb	**208**	**0.011**	ug/L	0.000	3	373	1650	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:45:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1319570	0	Standard
	Be	**9**	**0.001**	ug/L	0.002	154	6	14	71	Standard
	C	**13**		ug/L			33459	35192	0	Standard
	Cl	**37**		ug/L			8651601	8861011	0	Standard
>	**Sc**	**45**		ug/L			1570082	1554845	2	Standard
	V	**51**	**-0.018**	ug/L	0.004	20	8248	7571	1	Standard
	V-1	**51**	**0.003**	ug/L	0.001	21	224	329	4	Standard
	Cr	**52**	**-0.063**	ug/L	0.012	19	24127	22184	1	Standard
	Cr	**53**	**0.010**	ug/L	0.004	33	160	190	4	Standard
	Mn	**55**	**0.015**	ug/L	0.001	4	777	1401	2	Standard
>	**Ge**	**72**		ug/L			104575	100826	0	KED
	Ni	**60**	**0.005**	ug/L	0.006	123	14	21	43	KED
	Ni	**62**	**0.001**	ug/L	0.004	689	4	4	24	KED
	Cu	**63**	**0.005**	ug/L	0.003	54	101	121	10	KED
	Cu	**65**	**-0.004**	ug/L	0.002	42	59	46	10	KED
	Zn	**66**	**0.025**	ug/L	0.009	34	59	74	7	KED
	Zn	**67**	**0.021**	ug/L	0.041	196	13	15	30	KED
	As	**75**	**-0.003**	ug/L	0.001	28	3	2	13	KED
	Se	**78**	**0.111**	ug/L	0.054	48	11	14	13	KED
	Y	**89**		ug/L			967000	946252	1	Standard
	Kr	**83**		ug/L			64	73	20	Standard
>	**In-1**	**115**		ug/L			29935	27622	1	KED
	Cd	**111**	**0.002**	ug/L	0.004	177	2	3	45	KED
	Cd	**114**	**0.002**	ug/L	0.004	196	1	3	129	KED
>	**In**	**115**		ug/L			1886335	1797709	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	58	64	86	16	Standard
	Sb	**121**	**0.006**	ug/L	0.001	13	64	212	9	Standard
	Sb	**123**	**0.005**	ug/L	0.001	15	54	148	9	Standard
	Ba	**135**	**0.001**	ug/L	0.002	131	46	53	23	Standard
	Ba	**137**	**-0.001**	ug/L	0.001	244	88	77	19	Standard
>	**Tb**	**159**		ug/L			2858511	2805230	1	Standard
	Tl	**205**	**0.001**	ug/L	0.000	15	73	157	8	Standard
	Pb	**208**	**0.002**	ug/L	0.000	25	373	573	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:50:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1316140	3	Standard
	Be	**9**	**0.001**	ug/L	0.001	86	6	15	45	Standard
	C	**13**		ug/L			33459	34727	0	Standard
	Cl	**37**		ug/L			8651601	8784585	1	Standard
>	**Sc**	**45**		ug/L			1570082	1563077	0	Standard
	V	**51**	**-0.026**	ug/L	0.001	5	8248	7385	0	Standard
	V-1	**51**	**0.002**	ug/L	0.001	26	224	293	7	Standard
	Cr	**52**	**-0.083**	ug/L	0.005	6	24127	21759	0	Standard
	Cr	**53**	**0.010**	ug/L	0.001	6	160	190	2	Standard
	Mn	**55**	**0.013**	ug/L	0.001	4	777	1306	1	Standard
>	**Ge**	**72**		ug/L			104575	99009	0	KED
	Ni	**60**	**-0.002**	ug/L	0.001	74	14	10	20	KED
	Ni	**62**	**0.008**	ug/L	0.008	101	4	6	34	KED
	Cu	**63**	**0.004**	ug/L	0.005	127	101	114	19	KED
	Cu	**65**	**-0.006**	ug/L	0.000	5	59	41	2	KED
	Zn	**66**	**0.051**	ug/L	0.019	36	59	91	14	KED
	Zn	**67**	**0.012**	ug/L	0.077	629	13	14	58	KED
	As	**75**	**0.003**	ug/L	0.006	200	3	3	48	KED
	Se	**78**	**0.070**	ug/L	0.024	34	11	13	7	KED
	Y	**89**		ug/L			967000	952681	1	Standard
	Kr	**83**		ug/L			64	71	8	Standard
>	**In-1**	**115**		ug/L			29935	26913	1	KED
	Cd	**111**	**-0.001**	ug/L	0.003	264	2	1	50	KED
	Cd	**114**	**0.001**	ug/L	0.003	241	1	2	133	KED
>	**In**	**115**		ug/L			1886335	1805383	1	Standard
	Ag	**107**	**0.001**	ug/L	0.000	31	64	82	8	Standard
	Sb	**121**	**0.003**	ug/L	0.001	24	64	145	14	Standard
	Sb	**123**	**0.003**	ug/L	0.001	17	54	117	9	Standard
	Ba	**135**	**0.001**	ug/L	0.001	71	46	52	11	Standard
	Ba	**137**	**-0.000**	ug/L	0.001	430	88	82	11	Standard
>	**Tb**	**159**		ug/L			2858511	2814084	2	Standard
	Tl	**205**	**0.001**	ug/L	0.000	20	73	126	8	Standard
	Pb	**208**	**0.002**	ug/L	0.000	25	373	563	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 18:55:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1239840	3	Standard
	Be	**9**	**47.005**	ug/L	1.265	2	6	291824	0	Standard
	C	**13**		ug/L			33459	31677	0	Standard
	Cl	**37**		ug/L			8651601	9024207	0	Standard
>	**Sc**	**45**		ug/L			1570082	1539879	2	Standard
	V	**51**	**46.454**	ug/L	0.613	1	8248	1489247	0	Standard
	V-1	**51**	**47.072**	ug/L	0.461	0	224	1497807	1	Standard
	Cr	**52**	**46.838**	ug/L	1.137	2	24127	1286698	0	Standard
	Cr	**53**	**48.921**	ug/L	0.658	1	160	148134	1	Standard
	Mn	**55**	**51.506**	ug/L	0.908	1	777	2150413	0	Standard
>	**Ge**	**72**		ug/L			104575	94333	5	KED
	Ni	**60**	**51.699**	ug/L	2.894	5	14	79393	0	KED
	Ni	**62**	**51.751**	ug/L	2.593	5	4	13012	0	KED
	Cu	**63**	**52.449**	ug/L	2.586	4	101	234298	0	KED
	Cu	**65**	**51.979**	ug/L	2.568	4	59	117117	0	KED
	Zn	**66**	**52.044**	ug/L	2.599	4	59	33825	0	KED
	Zn	**67**	**52.126**	ug/L	3.285	6	13	5574	0	KED
	As	**75**	**50.560**	ug/L	2.905	5	3	15772	0	KED
	Se	**78**	**51.052**	ug/L	1.875	3	11	1783	1	KED
	Y	**89**		ug/L			967000	957199	1	Standard
	Kr	**83**		ug/L			64	69	17	Standard
>	**In-1**	**115**		ug/L			29935	26617	0	KED
	Cd	**111**	**50.293**	ug/L	0.395	0	2	18407	0	KED
	Cd	**114**	**50.497**	ug/L	0.442	0	1	47765	0	KED
>	**In**	**115**		ug/L			1886335	1779401	0	Standard
	Ag	**107**	**53.011**	ug/L	0.324	0	64	1310589	0	Standard
	Sb	**121**	**46.303**	ug/L	0.311	0	64	1217696	0	Standard
	Sb	**123**	**48.245**	ug/L	0.557	1	54	918721	0	Standard
	Ba	**135**	**45.468**	ug/L	0.137	0	46	317329	0	Standard
	Ba	**137**	**45.470**	ug/L	0.184	0	88	531861	0	Standard
>	**Tb**	**159**		ug/L			2858511	2896234	0	Standard
	Tl	**205**	**51.058**	ug/L	0.112	0	73	4736607	0	Standard
	Pb	**208**	**48.728**	ug/L	0.484	0	373	6101406	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:03:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1250751	2	Standard
	Be	**9**	**0.001**	ug/L	0.000	27	6	16	13	Standard
	C	**13**		ug/L			33459	32481	1	Standard
	Cl	**37**		ug/L			8651601	8757312	0	Standard
>	**Sc**	**45**		ug/L			1570082	1534494	1	Standard
	V	**51**	**-0.011**	ug/L	0.005	49	8248	7721	1	Standard
	V-1	**51**	**0.001**	ug/L	0.000	52	224	246	4	Standard
	Cr	**52**	**-0.035**	ug/L	0.024	69	24127	22631	1	Standard
	Cr	**53**	**0.003**	ug/L	0.010	283	160	166	16	Standard
	Mn	**55**	**0.008**	ug/L	0.001	7	777	1106	3	Standard
>	**Ge**	**72**		ug/L			104575	100163	1	KED
	Ni	**60**	**-0.003**	ug/L	0.002	71	14	9	34	KED
	Ni	**62**	**0.012**	ug/L	0.019	149	4	7	66	KED
	Cu	**63**	**0.005**	ug/L	0.004	92	101	119	17	KED
	Cu	**65**	**-0.000**	ug/L	0.006	1302	59	55	25	KED
	Zn	**66**	**0.015**	ug/L	0.028	180	59	67	29	KED
	Zn	**67**	**0.006**	ug/L	0.040	734	13	13	31	KED
	As	**75**	**0.003**	ug/L	0.003	95	3	4	24	KED
	Se	**78**	**0.099**	ug/L	0.075	75	11	14	19	KED
	Y	**89**		ug/L			967000	940542	0	Standard
	Kr	**83**		ug/L			64	52	5	Standard
>	**In-1**	**115**		ug/L			29935	27647	1	KED
	Cd	**111**	**-0.004**	ug/L	0.002	67	2	0	100	KED
	Cd	**114**	**-0.001**	ug/L	0.001	170	1	0	262	KED
>	**In**	**115**		ug/L			1886335	1818337	0	Standard
	Ag	**107**	**0.005**	ug/L	0.001	16	64	175	10	Standard
	Sb	**121**	**0.039**	ug/L	0.001	1	64	1100	1	Standard
	Sb	**123**	**0.040**	ug/L	0.001	2	54	822	1	Standard
	Ba	**135**	**0.008**	ug/L	0.003	32	46	104	18	Standard
	Ba	**137**	**0.010**	ug/L	0.001	8	88	206	5	Standard
>	**Tb**	**159**		ug/L			2858511	2853093	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	23	73	243	15	Standard
	Pb	**208**	**0.001**	ug/L	0.000	23	373	551	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:11:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1227002	3	Standard
	Be	**9**	**23.535**	ug/L	1.065	4	6	144555	1	Standard
	C	**13**		ug/L			33459	49133	1	Standard
	Cl	**37**		ug/L			8651601	8675406	0	Standard
>	**Sc**	**45**		ug/L			1570082	1706673	1	Standard
	V	**51**	**49.161**	ug/L	0.643	1	8248	1746368	1	Standard
	V-1	**51**	**49.533**	ug/L	0.560	1	224	1746896	1	Standard
	Cr	**52**	**33.663**	ug/L	0.441	1	24127	1032598	1	Standard
	Cr	**53**	**34.799**	ug/L	0.156	0	160	116852	1	Standard
	Mn	**55**	**219.722**	ug/L	2.545	1	777	10166675	1	Standard
>	**Ge**	**72**		ug/L			104575	97791	0	KED
	Ni	**60**	**42.441**	ug/L	0.422	0	14	67704	1	KED
	Ni	**62**	**42.049**	ug/L	0.733	1	4	10980	1	KED
	Cu	**63**	**40.373**	ug/L	0.414	1	101	187319	1	KED
	Cu	**65**	**40.501**	ug/L	0.337	0	59	94779	0	KED
	Zn	**66**	**110.990**	ug/L	0.124	0	59	74852	0	KED
	Zn	**67**	**106.906**	ug/L	0.481	0	13	11864	0	KED
	As	**75**	**27.858**	ug/L	0.306	1	3	9028	0	KED
	Se	**78**	**76.089**	ug/L	1.013	1	11	2754	2	KED
	Y	**89**		ug/L			967000	1266164	1	Standard
	Kr	**83**		ug/L			64	149	14	Standard
>	**In-1**	**115**		ug/L			29935	27402	0	KED
	Cd	**111**	**25.114**	ug/L	0.420	1	2	9464	1	KED
	Cd	**114**	**25.093**	ug/L	0.493	1	1	24436	1	KED
>	**In**	**115**		ug/L			1886335	1771892	0	Standard
		107		ug/L	0.317	1	64	645346	1	Standard
	Sb	**121**	**0.029**	ug/L	0.000	0	64	819	0	Standard
	Sb	**123**	**0.030**	ug/L	0.002	7	54	619	7	Standard
	Ba	**135**	**52.416**	ug/L	0.423	0	46	364260	0	Standard
	Ba	**137**	**52.631**	ug/L	0.472	0	88	612996	0	Standard
>	**Tb**	**159**		ug/L			2858511	3018603	1	Standard
	Tl	**205**	**25.125**	ug/L	0.358	1	73	2429055	0	Standard
	Pb	**208**	**26.165**	ug/L	0.431	1	373	3414565	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:16:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1192768	3	Standard
	Be	**9**	**0.226**	ug/L	0.011	4	6	1354	2	Standard
	C	**13**		ug/L			33459	51182	2	Standard
	Cl	**37**		ug/L			8651601	8464835	0	Standard
>	**Sc**	**45**		ug/L			1570082	1723474	0	Standard
	V	**51**	**32.258**	ug/L	0.201	0	8248	1160419	0	Standard
	V-1	**51**	**32.552**	ug/L	0.219	0	224	1159491	0	Standard
		52		ug/L	0.073	0	24127	468957	0	Standard
	Cr	**53**	**15.511**	ug/L	0.123	0	160	52695	0	Standard
	Mn	**55**	**526.945**	ug/L	14.996	2	777	24618520	2	Standard
>	**Ge**	**72**		ug/L			104575	97579	0	KED
	Ni	**60**	**17.130**	ug/L	0.283	1	14	27276	1	KED
	Ni	**62**	**17.301**	ug/L	0.100	0	4	4510	0	KED
	Cu	**63**	**30.867**	ug/L	0.129	0	101	142922	0	KED
	Cu	**65**	**31.029**	ug/L	0.113	0	59	72468	0	KED
	Zn	**66**	**59.568**	ug/L	0.423	0	59	40110	0	KED
	Zn	**67**	**57.417**	ug/L	1.109	1	13	6363	1	KED
	As	**75**	**8.682**	ug/L	0.043	0	3	2809	0	KED
	Se	**78**	**0.826**	ug/L	0.095	11	11	40	8	KED
	Y	**89**		ug/L			967000	1327659	2	Standard
	Kr	**83**		ug/L			64	144	4	Standard
>	**In-1**	**115**		ug/L			29935	26926	1	KED
	Cd	**111**	**0.075**	ug/L	0.013	17	2	29	15	KED
	Cd	**114**	**0.071**	ug/L	0.008	11	1	68	10	KED
>	**In**	**115**		ug/L			1886335	1788612	0	Standard
		107		ug/L	0.006	5	64	2671	5	Standard
	Sb	**121**	**0.046**	ug/L	0.002	3	64	1263	2	Standard
	Sb	**123**	**0.049**	ug/L	0.004	7	54	980	6	Standard
	Ba	**135**	**28.575**	ug/L	0.397	1	46	200465	0	Standard
	Ba	**137**	**28.549**	ug/L	0.245	0	88	335684	0	Standard
>	**Tb**	**159**		ug/L			2858511	3080334	0	Standard
	Tl	**205**	**0.035**	ug/L	0.001	1	73	3554	1	Standard
	Pb	**208**	**9.550**	ug/L	0.030	0	373	1272210	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:21:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1183389	1	Standard
	Be	**9**	**0.206**	ug/L	0.006	2	6	1227	3	Standard
	C	**13**		ug/L			33459	55174	1	Standard
	Cl	**37**		ug/L			8651601	8528006	0	Standard
>	**Sc**	**45**		ug/L			1570082	1672814	1	Standard
	V	**51**	**34.198**	ug/L	0.588	1	8248	1193406	0	Standard
	V-1	**51**	**34.556**	ug/L	0.560	1	224	1194603	0	Standard
		52		ug/L	0.105	0	24127	671399	1	Standard
	Cr	**53**	**23.148**	ug/L	0.084	0	160	76250	1	Standard
	Mn	**55**	**145.898**	ug/L	1.401	0	777	6617010	0	Standard
>	**Ge**	**72**		ug/L			104575	97126	0	KED
	Ni	**60**	**17.594**	ug/L	0.224	1	14	27881	0	KED
	Ni	**62**	**17.923**	ug/L	0.491	2	4	4651	3	KED
	Cu	**63**	**18.683**	ug/L	0.253	1	101	86140	0	KED
	Cu	**65**	**18.656**	ug/L	0.374	2	59	43387	1	KED
	Zn	**66**	**37.536**	ug/L	1.164	3	59	25174	2	KED
	Zn	**67**	**36.936**	ug/L	0.920	2	13	4079	1	KED
	As	**75**	**3.427**	ug/L	0.048	1	3	1105	0	KED
	Se	**78**	**0.555**	ug/L	0.080	14	11	30	10	KED
	Y	**89**		ug/L			967000	1259423	1	Standard
	Kr	**83**		ug/L			64	133	3	Standard
>	**In-1**	**115**		ug/L			29935	26279	1	KED
	Cd	**111**	**0.104**	ug/L	0.021	19	2	39	18	KED
	Cd	**114**	**0.083**	ug/L	0.015	18	1	78	17	KED
>	**In**	**115**		ug/L			1886335	1775177	0	Standard
		107		ug/L	0.002	2	64	2045	2	Standard
	Sb	**121**	**0.023**	ug/L	0.001	5	64	663	4	Standard
	Sb	**123**	**0.023**	ug/L	0.001	5	54	487	5	Standard
	Ba	**135**	**23.916**	ug/L	0.060	0	46	166535	0	Standard
	Ba	**137**	**24.337**	ug/L	0.040	0	88	284027	0	Standard
>	**Tb**	**159**		ug/L			2858511	3038570	0	Standard
	Tl	**205**	**0.050**	ug/L	0.001	2	73	4990	3	Standard
	Pb	**208**	**3.398**	ug/L	0.022	0	373	446748	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:26:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1172792	1	Standard
	Be	**9**	**0.153**	ug/L	0.003	2	6	905	0	Standard
	C	**13**		ug/L			33459	49181	1	Standard
	Cl	**37**		ug/L			8651601	8476575	0	Standard
>	**Sc**	**45**		ug/L			1570082	1626384	0	Standard
	V	**51**	**25.722**	ug/L	0.220	0	8248	874950	1	Standard
	V-1	**51**	**25.949**	ug/L	0.201	0	224	872337	1	Standard
		52		ug/L	0.114	0	24127	387563	1	Standard
	Cr	**53**	**13.392**	ug/L	0.049	0	160	42959	0	Standard
	Mn	**55**	**139.698**	ug/L	0.835	0	777	6160511	1	Standard
>	**Ge**	**72**		ug/L			104575	95371	1	KED
	Ni	**60**	**13.484**	ug/L	0.171	1	14	20986	1	KED
	Ni	**62**	**13.463**	ug/L	0.696	5	4	3429	3	KED
	Cu	**63**	**14.653**	ug/L	0.320	2	101	66363	2	KED
	Cu	**65**	**14.555**	ug/L	0.075	0	59	33253	1	KED
	Zn	**66**	**32.666**	ug/L	0.532	1	59	21520	0	KED
	Zn	**67**	**32.239**	ug/L	1.539	4	13	3496	3	KED
	As	**75**	**3.396**	ug/L	0.093	2	3	1075	1	KED
	Se	**78**	**0.481**	ug/L	0.115	23	11	27	16	KED
	Y	**89**		ug/L			967000	1174237	0	Standard
	Kr	**83**		ug/L			64	106	2	Standard
>	**In-1**	**115**		ug/L			29935	26124	0	KED
	Cd	**111**	**0.042**	ug/L	0.005	12	2	17	11	KED
	Cd	**114**	**0.049**	ug/L	0.007	14	1	46	14	KED
>	**In**	**115**		ug/L			1886335	1780968	0	Standard
		107		ug/L	0.001	1	64	1269	1	Standard
	Sb	**121**	**0.021**	ug/L	0.000	2	64	609	2	Standard
	Sb	**123**	**0.021**	ug/L	0.003	12	54	444	10	Standard
	Ba	**135**	**28.023**	ug/L	0.394	1	46	195752	0	Standard
	Ba	**137**	**28.340**	ug/L	0.155	0	88	331813	0	Standard
>	**Tb**	**159**		ug/L			2858511	3001090	0	Standard
	Tl	**205**	**0.047**	ug/L	0.001	2	73	4636	2	Standard
	Pb	**208**	**2.758**	ug/L	0.013	0	373	358170	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:31:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1169884	3	Standard
	Be	**9**	**0.236**	ug/L	0.011	4	6	1389	2	Standard
	C	**13**		ug/L			33459	44666	1	Standard
	Cl	**37**		ug/L			8651601	8411553	0	Standard
>	**Sc**	**45**		ug/L			1570082	1611848	1	Standard
	V	**51**	**29.297**	ug/L	0.581	1	8248	986206	0	Standard
	V-1	**51**	**29.628**	ug/L	0.548	1	224	986817	0	Standard
		52		ug/L	0.301	1	24127	673792	0	Standard
	Cr	**53**	**24.054**	ug/L	0.183	0	160	76333	1	Standard
	Mn	**55**	**341.488**	ug/L	7.070	2	777	14919992	0	Standard
>	**Ge**	**72**		ug/L			104575	96336	0	KED
	Ni	**60**	**22.099**	ug/L	0.363	1	14	34732	1	KED
	Ni	**62**	**21.707**	ug/L	0.634	2	4	5585	2	KED
	Cu	**63**	**15.507**	ug/L	0.056	0	101	70933	0	KED
	Cu	**65**	**15.590**	ug/L	0.129	0	59	35975	0	KED
	Zn	**66**	**35.875**	ug/L	0.239	0	59	23871	1	KED
	Zn	**67**	**34.507**	ug/L	0.134	0	13	3781	0	KED
	As	**75**	**2.146**	ug/L	0.016	0	3	687	0	KED
	Se	**78**	**0.636**	ug/L	0.111	17	11	32	12	KED
	Y	**89**		ug/L			967000	1320652	0	Standard
	Kr	**83**		ug/L			64	149	3	Standard
>	**In-1**	**115**		ug/L			29935	26000	0	KED
	Cd	**111**	**0.042**	ug/L	0.010	23	2	17	20	KED
	Cd	**114**	**0.043**	ug/L	0.008	18	1	41	18	KED
>	**In**	**115**		ug/L			1886335	1732875	0	Standard
		107		ug/L	0.002	5	64	1031	5	Standard
	Sb	**121**	**0.009**	ug/L	0.001	13	64	286	10	Standard
	Sb	**123**	**0.011**	ug/L	0.002	17	54	249	13	Standard
	Ba	**135**	**16.671**	ug/L	0.121	0	46	113330	0	Standard
	Ba	**137**	**16.921**	ug/L	0.181	1	88	192797	0	Standard
>	**Tb**	**159**		ug/L			2858511	3008700	2	Standard
	Tl	**205**	**0.028**	ug/L	0.001	2	73	2762	1	Standard
	Pb	**208**	**1.445**	ug/L	0.040	2	373	188223	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:36:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1126644	1	Standard
	Be	**9**	**0.180**	ug/L	0.009	5	6	1020	6	Standard
	C	**13**		ug/L			33459	44676	0	Standard
	Cl	**37**		ug/L			8651601	8257232	0	Standard
>	**Sc**	**45**		ug/L			1570082	1604375	1	Standard
	V	**51**	**30.176**	ug/L	0.110	0	8248	1011043	1	Standard
	V-1	**51**	**30.429**	ug/L	0.082	0	224	1008985	1	Standard
		52		ug/L	0.160	1	24127	461254	1	Standard
	Cr	**53**	**16.275**	ug/L	0.163	1	160	51463	1	Standard
	Mn	**55**	**296.733**	ug/L	2.523	0	777	12906527	0	Standard
>	**Ge**	**72**		ug/L			104575	93981	0	KED
	Ni	**60**	**18.149**	ug/L	0.331	1	14	27830	1	KED
	Ni	**62**	**18.867**	ug/L	0.413	2	4	4737	2	KED
	Cu	**63**	**18.026**	ug/L	0.482	2	101	80423	2	KED
	Cu	**65**	**17.897**	ug/L	0.328	1	59	40280	1	KED
	Zn	**66**	**31.747**	ug/L	0.648	2	59	20614	2	KED
	Zn	**67**	**29.931**	ug/L	0.522	1	13	3201	2	KED
	As	**75**	**2.746**	ug/L	0.044	1	3	857	2	KED
	Se	**78**	**0.573**	ug/L	0.141	24	11	29	15	KED
	Y	**89**		ug/L			967000	1188759	1	Standard
	Kr	**83**		ug/L			64	126	12	Standard
>	**In-1**	**115**		ug/L			29935	25247	2	KED
	Cd	**111**	**0.036**	ug/L	0.006	17	2	14	13	KED
	Cd	**114**	**0.044**	ug/L	0.011	25	1	40	23	KED
>	**In**	**115**		ug/L			1886335	1723803	1	Standard
		107		ug/L	0.000	0	64	886	0	Standard
	Sb	**121**	**0.012**	ug/L	0.002	13	64	372	10	Standard
	Sb	**123**	**0.012**	ug/L	0.002	15	54	278	13	Standard
	Ba	**135**	**20.909**	ug/L	0.114	0	46	141383	0	Standard
	Ba	**137**	**21.454**	ug/L	0.154	0	88	243143	0	Standard
>	**Tb**	**159**		ug/L			2858511	2978385	0	Standard
	Tl	**205**	**0.049**	ug/L	0.003	5	73	4719	5	Standard
	Pb	**208**	**2.137**	ug/L	0.022	1	373	275534	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:41:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1125473	1	Standard
	Be	**9**	**0.188**	ug/L	0.002	1	6	1068	0	Standard
	C	**13**		ug/L			33459	45477	1	Standard
	Cl	**37**		ug/L			8651601	8257070	0	Standard
>	**Sc**	**45**		ug/L			1570082	1606445	1	Standard
	V	**51**	**25.988**	ug/L	0.222	0	8248	872953	0	Standard
	V-1	**51**	**26.166**	ug/L	0.182	0	224	868738	1	Standard
		52		ug/L	0.149	1	24127	355221	0	Standard
	Cr	**53**	**12.239**	ug/L	0.063	0	160	38791	1	Standard
	Mn	**55**	**220.786**	ug/L	0.864	0	777	9616807	2	Standard
>	**Ge**	**72**		ug/L			104575	94080	0	KED
	Ni	**60**	**17.141**	ug/L	0.331	1	14	26312	1	KED
	Ni	**62**	**17.474**	ug/L	0.238	1	4	4392	1	KED
	Cu	**63**	**15.567**	ug/L	0.181	1	101	69539	0	KED
	Cu	**65**	**15.542**	ug/L	0.208	1	59	35024	0	KED
	Zn	**66**	**30.841**	ug/L	0.698	2	59	20047	1	KED
	Zn	**67**	**29.948**	ug/L	0.450	1	13	3206	1	KED
	As	**75**	**9.759**	ug/L	0.084	0	3	3044	1	KED
	Se	**78**	**0.831**	ug/L	0.106	12	11	38	9	KED
	Y	**89**		ug/L			967000	1220975	2	Standard
	Kr	**83**		ug/L			64	143	9	Standard
>	**In-1**	**115**		ug/L			29935	25448	2	KED
	Cd	**111**	**0.037**	ug/L	0.008	21	2	15	16	KED
	Cd	**114**	**0.034**	ug/L	0.005	14	1	31	16	KED
>	**In**	**115**		ug/L			1886335	1743369	1	Standard
		107		ug/L	0.003	4	64	1376	5	Standard
	Sb	**121**	**0.016**	ug/L	0.001	7	64	476	4	Standard
	Sb	**123**	**0.016**	ug/L	0.001	8	54	354	5	Standard
	Ba	**135**	**17.571**	ug/L	0.207	1	46	120156	1	Standard
	Ba	**137**	**17.723**	ug/L	0.066	0	88	203159	1	Standard
>	**Tb**	**159**		ug/L			2858511	2953664	1	Standard
	Tl	**205**	**0.027**	ug/L	0.000	1	73	2644	1	Standard
	Pb	**208**	**3.016**	ug/L	0.037	1	373	385480	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:46:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1155700	1	Standard
	Be	**9**	**0.144**	ug/L	0.006	4	6	841	2	Standard
	C	**13**		ug/L			33459	45214	1	Standard
	Cl	**37**		ug/L			8651601	8296128	1	Standard
>	**Sc**	**45**		ug/L			1570082	1614288	1	Standard
	V	**51**	**25.413**	ug/L	0.290	1	8248	858018	0	Standard
	V-1	**51**	**25.615**	ug/L	0.286	1	224	854603	0	Standard
		52		ug/L	0.073	0	24127	342121	1	Standard
	Cr	**53**	**11.793**	ug/L	0.057	0	160	37567	1	Standard
	Mn	**55**	**329.905**	ug/L	1.412	0	777	14438494	0	Standard
>	**Ge**	**72**		ug/L			104575	94801	1	KED
	Ni	**60**	**17.213**	ug/L	0.508	2	14	26617	1	KED
	Ni	**62**	**17.091**	ug/L	0.223	1	4	4328	0	KED
	Cu	**63**	**11.204**	ug/L	0.142	1	101	50451	0	KED
	Cu	**65**	**11.129**	ug/L	0.260	2	59	25280	0	KED
	Zn	**66**	**25.549**	ug/L	0.425	1	59	16745	2	KED
	Zn	**67**	**25.714**	ug/L	0.055	0	13	2776	1	KED
	As	**75**	**2.662**	ug/L	0.069	2	3	839	3	KED
	Se	**78**	**0.365**	ug/L	0.059	16	11	22	7	KED
	Y	**89**		ug/L			967000	1166912	0	Standard
	Kr	**83**		ug/L			64	120	11	Standard
>	**In-1**	**115**		ug/L			29935	23006	12	KED
	Cd	**111**	**0.028**	ug/L	0.012	42	2	11	42	KED
	Cd	**114**	**0.029**	ug/L	0.009	30	1	24	24	KED
>	**In**	**115**		ug/L			1886335	1746587	1	Standard
		107		ug/L	0.002	4	64	867	2	Standard
	Sb	**121**	**0.015**	ug/L	0.001	9	64	450	7	Standard
	Sb	**123**	**0.015**	ug/L	0.002	12	54	330	8	Standard
	Ba	**135**	**24.875**	ug/L	0.555	2	46	170378	0	Standard
	Ba	**137**	**25.117**	ug/L	0.571	2	88	288337	0	Standard
>	**Tb**	**159**		ug/L			2858511	2980888	0	Standard
	Tl	**205**	**0.037**	ug/L	0.000	0	73	3622	1	Standard
	Pb	**208**	**2.502**	ug/L	0.008	0	373	322832	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:51:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1171987	1	Standard
	Be	**9**	**0.156**	ug/L	0.005	3	6	921	3	Standard
	C	**13**		ug/L			33459	44664	1	Standard
	Cl	**37**		ug/L			8651601	8221157	1	Standard
>	**Sc**	**45**		ug/L			1570082	1593438	0	Standard
	V	**51**	**27.281**	ug/L	0.147	0	8248	908634	0	Standard
	V-1	**51**	**27.458**	ug/L	0.075	0	224	904313	0	Standard
		52		ug/L	0.186	1	24127	354424	1	Standard
	Cr	**53**	**12.300**	ug/L	0.085	0	160	38668	0	Standard
	Mn	**55**	**333.333**	ug/L	3.371	1	777	14400054	0	Standard
>	**Ge**	**72**		ug/L			104575	95516	0	KED
	Ni	**60**	**17.265**	ug/L	0.345	2	14	26907	1	KED
	Ni	**62**	**17.249**	ug/L	0.422	2	4	4401	2	KED
	Cu	**63**	**12.383**	ug/L	0.026	0	101	56182	0	KED
	Cu	**65**	**12.520**	ug/L	0.252	2	59	28653	1	KED
	Zn	**66**	**28.824**	ug/L	0.143	0	59	19027	0	KED
	Zn	**67**	**28.194**	ug/L	0.606	2	13	3065	2	KED
	As	**75**	**2.741**	ug/L	0.049	1	3	870	1	KED
	Se	**78**	**0.470**	ug/L	0.223	47	11	26	29	KED
	Y	**89**		ug/L			967000	1182184	1	Standard
	Kr	**83**		ug/L			64	144	3	Standard
>	**In-1**	**115**		ug/L			29935	26201	2	KED
	Cd	**111**	**0.034**	ug/L	0.010	30	2	14	24	KED
	Cd	**114**	**0.040**	ug/L	0.007	16	1	38	18	KED
>	**In**	**115**		ug/L			1886335	1746379	0	Standard
		107		ug/L	0.001	1	64	1044	1	Standard
	Sb	**121**	**0.014**	ug/L	0.000	3	64	421	2	Standard
	Sb	**123**	**0.014**	ug/L	0.001	8	54	315	7	Standard
	Ba	**135**	**16.992**	ug/L	0.180	1	46	116412	0	Standard
	Ba	**137**	**17.099**	ug/L	0.181	1	88	196344	0	Standard
>	**Tb**	**159**		ug/L			2858511	2990985	0	Standard
	Tl	**205**	**0.035**	ug/L	0.001	2	73	3432	2	Standard
	Pb	**208**	**2.174**	ug/L	0.023	1	373	281481	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 19:56:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1149966	1	Standard
	Be	**9**	**0.001**	ug/L	0.001	104	6	12	45	Standard
	C	**13**		ug/L			33459	30643	1	Standard
	Cl	**37**		ug/L			8651601	7914999	0	Standard
>	**Sc**	**45**		ug/L			1570082	1481798	2	Standard
	V	**51**	**-0.012**	ug/L	0.004	33	8248	7411	0	Standard
	V-1	**51**	**-0.002**	ug/L	0.000	13	224	137	8	Standard
	Cr	**52**	**-0.030**	ug/L	0.011	34	24127	21981	1	Standard
	Cr	**53**	**0.002**	ug/L	0.004	192	160	157	9	Standard
	Mn	**55**	**0.008**	ug/L	0.002	19	777	1058	4	Standard
>	**Ge**	**72**		ug/L			104575	95780	0	KED
	Ni	**60**	**-0.000**	ug/L	0.002	428	14	12	22	KED
	Ni	**62**	**0.011**	ug/L	0.011	99	4	6	41	KED
	Cu	**63**	**0.001**	ug/L	0.005	391	101	98	21	KED
	Cu	**65**	**-0.001**	ug/L	0.003	394	59	52	15	KED
	Zn	**66**	**0.028**	ug/L	0.019	68	59	73	17	KED
	Zn	**67**	**0.011**	ug/L	0.079	735	13	13	61	KED
	As	**75**	**0.003**	ug/L	0.001	26	3	3	6	KED
	Se	**78**	**0.052**	ug/L	0.090	174	11	11	26	KED
	Y	**89**		ug/L			967000	909643	0	Standard
	Kr	**83**		ug/L			64	63	9	Standard
>	**In-1**	**115**		ug/L			29935	25523	0	KED
	Cd	**111**	**-0.003**	ug/L	0.002	61	2	1	43	KED
	Cd	**114**	**0.001**	ug/L	0.002	223	1	1	107	KED
>	**In**	**115**		ug/L			1886335	1750407	0	Standard
	Ag	**107**	**0.000**	ug/L	0.000	116	64	64	8	Standard
	Sb	**121**	**0.003**	ug/L	0.000	8	64	131	3	Standard
	Sb	**123**	**0.002**	ug/L	0.000	5	54	97	2	Standard
	Ba	**135**	**-0.001**	ug/L	0.003	310	46	37	46	Standard
	Ba	**137**	**-0.002**	ug/L	0.001	28	88	56	13	Standard
>	**Tb**	**159**		ug/L			2858511	2811648	1	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	78	73	59	16	Standard
	Pb	**208**	**-0.000**	ug/L	0.000	138	373	346	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:01:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1167437	2	Standard
	Be	**9**	**47.515**	ug/L	1.524	3	6	277747	0	Standard
	C	**13**		ug/L			33459	30134	1	Standard
	Cl	**37**		ug/L			8651601	8676464	0	Standard
>	**Sc**	**45**		ug/L			1570082	1487665	0	Standard
	V	**51**	**45.953**	ug/L	0.787	1	8248	1423668	2	Standard
	V-1	**51**	**46.493**	ug/L	0.657	1	224	1429474	1	Standard
	Cr	**52**	**46.958**	ug/L	0.545	1	24127	1246662	1	Standard
	Cr	**53**	**48.780**	ug/L	0.319	0	160	142729	0	Standard
	Mn	**55**	**48.136**	ug/L	0.277	0	777	1942146	0	Standard
>	**Ge**	**72**		ug/L			104575	94844	0	KED
	Ni	**60**	**49.921**	ug/L	0.602	1	14	77234	1	KED
	Ni	**62**	**49.306**	ug/L	0.555	1	4	12486	0	KED
	Cu	**63**	**50.223**	ug/L	0.238	0	101	225968	0	KED
	Cu	**65**	**50.521**	ug/L	0.345	0	59	114653	0	KED
	Zn	**66**	**50.718**	ug/L	0.812	1	59	33201	1	KED
	Zn	**67**	**48.863**	ug/L	0.637	1	13	5266	1	KED
	As	**75**	**49.033**	ug/L	0.421	0	3	15410	0	KED
	Se	**78**	**49.411**	ug/L	0.683	1	11	1738	1	KED
	Y	**89**		ug/L			967000	915233	0	Standard
	Kr	**83**		ug/L			64	71	8	Standard
>	**In-1**	**115**		ug/L			29935	25431	1	KED
	Cd	**111**	**50.779**	ug/L	0.580	1	2	17756	0	KED
	Cd	**114**	**51.303**	ug/L	0.117	0	1	46367	1	KED
>	**In**	**115**		ug/L			1886335	1735270	1	Standard
	Ag	**107**	**50.228**	ug/L	1.653	3	64	1210724	2	Standard
	Sb	**121**	**46.843**	ug/L	0.849	1	64	1201219	1	Standard
	Sb	**123**	**49.069**	ug/L	0.887	1	54	911167	0	Standard
	Ba	**135**	**45.281**	ug/L	0.555	1	46	308158	0	Standard
	Ba	**137**	**45.406**	ug/L	0.870	1	88	517874	0	Standard
>	**Tb**	**159**		ug/L			2858511	2869220	1	Standard
	Tl	**205**	**50.636**	ug/L	0.096	0	73	4653493	0	Standard
	Pb	**208**	**48.326**	ug/L	0.433	0	373	5994490	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:09:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1184297	1167517	2	Standard
	Be	**9**	**0.001**	ug/L	0.001	79	6	12	36	Standard
	C	**13**		ug/L			33459	31001	0	Standard
	Cl	**37**		ug/L			8651601	8366500	0	Standard
>	**Sc**	**45**		ug/L			1570082	1499006	1	Standard
	V	**51**	**0.003**	ug/L	0.003	119	8248	7963	1	Standard
	V-1	**51**	**-0.002**	ug/L	0.000	14	224	138	9	Standard
	Cr	**52**	**0.012**	ug/L	0.013	112	24127	23339	1	Standard
	Cr	**53**	**-0.006**	ug/L	0.002	30	160	134	4	Standard
	Mn	**55**	**0.006**	ug/L	0.002	29	777	973	5	Standard
>	**Ge**	**72**		ug/L			104575	95945	0	KED
	Ni	**60**	**0.000**	ug/L	0.004	1040	14	13	41	KED
	Ni	**62**	**-0.004**	ug/L	0.004	121	4	3	34	KED
	Cu	**63**	**0.009**	ug/L	0.002	16	101	135	5	KED
	Cu	**65**	**0.001**	ug/L	0.004	270	59	57	13	KED
	Zn	**66**	**0.048**	ug/L	0.010	21	59	86	7	KED
	Zn	**67**	**-0.042**	ug/L	0.010	24	13	8	13	KED
	As	**75**	**0.003**	ug/L	0.005	182	3	3	43	KED
	Se	**78**	**0.024**	ug/L	0.135	566	11	10	43	KED
	Y	**89**		ug/L			967000	906718	0	Standard
	Kr	**83**		ug/L			64	56	1	Standard
>	**In-1**	**115**		ug/L			29935	26591	0	KED
	Cd	**111**	**0.001**	ug/L	0.003	386	2	2	43	KED
	Cd	**114**	**0.003**	ug/L	0.003	92	1	4	70	KED
>	**In**	**115**		ug/L			1886335	1755406	1	Standard
	Ag	**107**	**0.003**	ug/L	0.000	12	64	138	6	Standard
	Sb	**121**	**0.036**	ug/L	0.001	3	64	1006	3	Standard
	Sb	**123**	**0.039**	ug/L	0.001	1	54	787	2	Standard
	Ba	**135**	**0.011**	ug/L	0.001	8	46	115	6	Standard
	Ba	**137**	**0.010**	ug/L	0.000	4	88	195	2	Standard
>	**Tb**	**159**		ug/L			2858511	2791581	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	5	73	176	3	Standard
	Pb	**208**	**0.001**	ug/L	0.000	28	373	539	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:23:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L				1174653	1	Standard
	Be	**9**		ug/L				13	61	Standard
	C	**13**		ug/L				30879	0	Standard
	Cl	**37**		ug/L				8137590	0	Standard
>	**Sc**	**45**		ug/L				1506324	2	Standard
	V	**51**		ug/L				7630	1	Standard
	V-1	**51**		ug/L				137	13	Standard
	Cr	**52**		ug/L				22519	1	Standard
	Cr	**53**		ug/L				148	4	Standard
	Mn	**55**		ug/L				1780	3	Standard
>	**Ge**	**72**		ug/L				97794	0	KED
	Ni	**60**		ug/L				15	72	KED
	Ni	**62**		ug/L				2	43	KED
	Cu	**63**		ug/L				99	4	KED
	Cu	**65**		ug/L				53	7	KED
	Zn	**66**		ug/L				300	8	KED
	Zn	**67**		ug/L				50	21	KED
	As	**75**		ug/L				4	37	KED
	Se	**78**		ug/L				11	31	KED
	Y	**89**		ug/L				893628	0	Standard
	Kr	**83**		ug/L				62	9	Standard
>	**In-1**	**115**		ug/L				27117	1	KED
	Cd	**111**		ug/L				3	69	KED
	Cd	**114**		ug/L				3	137	KED
>	**In**	**115**		ug/L				1764814	0	Standard
	Ag	**107**		ug/L				70	25	Standard
	Sb	**121**		ug/L				359	11	Standard
	Sb	**123**		ug/L				300	11	Standard
	Ba	**135**		ug/L				33	22	Standard
	Ba	**137**		ug/L				55	17	Standard
>	**Tb**	**159**		ug/L				2798401	0	Standard
	Tl	**205**		ug/L				80	13	Standard
	Pb	**208**		ug/L				353	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:28:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1121144	0	Standard
	Be	**9**	**48.429**	ug/L	0.612	1	13	272045	1	Standard
	C	**13**		ug/L			30879	29625	0	Standard
	Cl	**37**		ug/L			8137590	8654128	0	Standard
>	**Sc**	**45**		ug/L			1506324	1442175	2	Standard
	V	**51**	**47.060**	ug/L	0.539	1	7630	1412617	1	Standard
	V-1	**51**	**47.700**	ug/L	0.652	1	137	1421320	1	Standard
	Cr	**52**	**47.378**	ug/L	0.684	1	22519	1218206	1	Standard
	Cr	**53**	**49.531**	ug/L	0.974	1	148	140440	1	Standard
	Mn	**55**	**48.736**	ug/L	0.300	0	1780	1907041	2	Standard
>	**Ge**	**72**		ug/L			97794	92251	0	KED
	Ni	**60**	**49.407**	ug/L	0.515	1	15	74351	1	KED
	Ni	**62**	**50.032**	ug/L	0.646	1	2	12322	1	KED
	Cu	**63**	**50.353**	ug/L	0.740	1	99	220376	1	KED
	Cu	**65**	**49.734**	ug/L	0.339	0	53	109781	0	KED
	Zn	**66**	**50.951**	ug/L	0.726	1	300	32674	1	KED
	Zn	**67**	**50.318**	ug/L	1.907	3	50	5309	3	KED
	As	**75**	**49.734**	ug/L	0.576	1	4	15204	1	KED
	Se	**78**	**48.920**	ug/L	1.476	3	11	1675	3	KED
	Y	**89**		ug/L			893628	866858	1	Standard
	Kr	**83**		ug/L			62	69	16	Standard
>	**In-1**	**115**		ug/L			27117	25252	1	KED
	Cd	**111**	**50.900**	ug/L	1.115	2	3	17672	1	KED
	Cd	**114**	**50.899**	ug/L	0.820	1	3	45673	0	KED
>	**In**	**115**		ug/L			1764814	1687610	0	Standard
	Ag	**107**	**50.775**	ug/L	0.634	1	70	1190648	1	Standard
	Sb	**121**	**46.903**	ug/L	0.181	0	359	1170111	0	Standard
	Sb	**123**	**48.795**	ug/L	0.275	0	300	881523	0	Standard
	Ba	**135**	**45.752**	ug/L	0.598	1	33	302804	0	Standard
	Ba	**137**	**46.129**	ug/L	0.458	0	55	511684	0	Standard
>	**Tb**	**159**		ug/L			2798401	2783223	1	Standard
	Tl	**205**	**50.907**	ug/L	0.588	1	80	4537916	0	Standard
	Pb	**208**	**48.879**	ug/L	0.254	0	353	5881490	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:35:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1159927	1	Standard
	Be	**9**	**0.000**	ug/L	0.000	348	13	14	19	Standard
	C	**13**		ug/L			30879	30459	0	Standard
	Cl	**37**		ug/L			8137590	8431802	0	Standard
>	**Sc**	**45**		ug/L			1506324	1470012	1	Standard
	V	**51**	**0.008**	ug/L	0.004	58	7630	7675	0	Standard
	V-1	**51**	**0.001**	ug/L	0.001	188	137	153	23	Standard
	Cr	**52**	**0.021**	ug/L	0.021	102	22519	22508	0	Standard
	Cr	**53**	**-0.002**	ug/L	0.008	344	148	138	14	Standard
	Mn	**55**	**-0.015**	ug/L	0.002	12	1780	1143	5	Standard
>	**Ge**	**72**		ug/L			97794	95080	1	KED
	Ni	**60**	**-0.001**	ug/L	0.002	222	15	13	20	KED
	Ni	**62**	**0.010**	ug/L	0.011	110	2	5	57	KED
	Cu	**63**	**0.002**	ug/L	0.001	59	99	107	5	KED
	Cu	**65**	**-0.004**	ug/L	0.003	72	53	43	11	KED
	Zn	**66**	**-0.180**	ug/L	0.019	10	300	174	8	KED
	Zn	**67**	**-0.163**	ug/L	0.049	29	50	31	15	KED
	As	**75**	**-0.001**	ug/L	0.003	486	4	3	25	KED
	Se	**78**	**0.040**	ug/L	0.133	333	11	12	37	KED
	Y	**89**		ug/L			893628	886654	1	Standard
	Kr	**83**		ug/L			62	69	15	Standard
>	**In-1**	**115**		ug/L			27117	26518	2	KED
	Cd	**111**	**0.000**	ug/L	0.004	2288	3	3	45	KED
	Cd	**114**	**-0.001**	ug/L	0.002	193	3	2	90	KED
>	**In**	**115**		ug/L			1764814	1728569	0	Standard
	Ag	**107**	**0.003**	ug/L	0.001	32	70	141	16	Standard
	Sb	**121**	**0.031**	ug/L	0.001	2	359	1154	1	Standard
	Sb	**123**	**0.032**	ug/L	0.001	4	300	883	2	Standard
	Ba	**135**	**0.000**	ug/L	0.001	174	33	35	12	Standard
	Ba	**137**	**0.001**	ug/L	0.001	75	55	69	15	Standard
>	**Tb**	**159**		ug/L			2798401	2771127	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	23	80	235	15	Standard
	Pb	**208**	**0.001**	ug/L	0.001	109	353	416	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:42:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1173074	2	Standard
		9	-	ug/L	0.000	111	13	12	18	Standard
	C	**13**		ug/L			30879	55201	0	Standard
	Cl	**37**		ug/L			8137590	8344193	0	Standard
>	**Sc**	**45**		ug/L			1506324	1491634	1	Standard
	V	**51**	**0.023**	ug/L	0.005	22	7630	8278	2	Standard
	V-1	**51**	**0.004**	ug/L	0.000	9	137	257	4	Standard
		52		ug/L	0.017	18	22519	24695	2	Standard
	Cr	**53**	**0.027**	ug/L	0.004	13	148	225	3	Standard
	Mn	**55**	**0.032**	ug/L	0.001	3	1780	3038	1	Standard
>	**Ge**	**72**		ug/L			97794	95411	0	KED
		60		ug/L	0.004	91	15	22	27	KED
	Ni	**62**	**0.008**	ug/L	0.004	55	2	4	24	KED
		63		ug/L	0.005	15	99	235	9	KED
	Cu	**65**	**0.030**	ug/L	0.011	35	53	119	20	KED
		66		ug/L	0.056	48	300	368	9	KED
	Zn	**67**	**-0.053**	ug/L	0.045	84	50	43	11	KED
		75		ug/L	0.003	318	4	4	19	KED
		78		ug/L	0.087	155	11	12	23	KED
	Y	**89**		ug/L			893628	906671	1	Standard
	Kr	**83**		ug/L			62	52	20	Standard
>	**In-1**	**115**		ug/L			27117	26257	1	KED
		111		ug/L	0.002	138	3	3	15	KED
	Cd	**114**	**-0.003**	ug/L	0.001	31	3	0	223	KED
>	**In**	**115**		ug/L			1764814	1756949	0	Standard
		107		ug/L	0.001	55	70	100	17	Standard
		121		ug/L	0.001	14	359	529	4	Standard
	Sb	**123**	**0.005**	ug/L	0.002	39	300	386	8	Standard
	Ba	**135**	**0.016**	ug/L	0.002	9	33	142	6	Standard
	Ba	**137**	**0.014**	ug/L	0.002	14	55	219	11	Standard
>	**Tb**	**159**		ug/L			2798401	2834747	0	Standard
		205		ug/L	0.000	28	80	126	10	Standard
		208		ug/L	0.000	6	353	915	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:47:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1164188	1	Standard
		9		ug/L	0.460	1	13	144642	0	Standard
	C	**13**		ug/L			30879	53936	0	Standard
	Cl	**37**		ug/L			8137590	8326898	0	Standard
>	**Sc**	**45**		ug/L			1506324	1475536	1	Standard
	V	**51**	**24.511**	ug/L	0.553	2	7630	756309	0	Standard
	V-1	**51**	**24.766**	ug/L	0.466	1	137	755081	0	Standard
		52		ug/L	0.337	1	22519	674672	0	Standard
	Cr	**53**	**26.113**	ug/L	0.175	0	148	75845	1	Standard
	Mn	**55**	**26.030**	ug/L	0.477	1	1780	1042785	0	Standard
>	**Ge**	**72**		ug/L			97794	93699	1	KED
		60		ug/L	0.223	0	15	40613	1	KED
	Ni	**62**	**26.625**	ug/L	0.331	1	2	6661	0	KED
		63		ug/L	0.255	0	99	122617	0	KED
	Cu	**65**	**27.594**	ug/L	0.059	0	53	61890	1	KED
		66		ug/L	0.973	1	300	54837	0	KED
	Zn	**67**	**80.210**	ug/L	2.070	2	50	8567	1	KED
		75		ug/L	0.082	0	4	7911	0	KED
		78		ug/L	0.706	0	11	2753	0	KED
	Y	**89**		ug/L			893628	890499	1	Standard
	Kr	**83**		ug/L			62	63	17	Standard
>	**In-1**	**115**		ug/L			27117	25143	2	KED
		111		ug/L	0.855	3	3	9235	1	KED
	Cd	**114**	**26.715**	ug/L	0.414	1	3	23872	2	KED
>	**In**	**115**		ug/L			1764814	1723651	0	Standard
		107		ug/L	0.297	1	70	655933	1	Standard
		121		ug/L	0.216	0	359	640212	0	Standard
	Sb	**123**	**26.034**	ug/L	0.205	0	300	480531	1	Standard
	Ba	**135**	**23.538**	ug/L	0.208	0	33	159134	0	Standard
	Ba	**137**	**23.904**	ug/L	0.414	1	55	270838	1	Standard
>	**Tb**	**159**		ug/L			2798401	2790346	1	Standard
		205		ug/L	0.189	0	80	2533562	0	Standard
		208		ug/L	0.434	1	353	3054229	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:52:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1144059	2	Standard
		9		ug/L	0.013	3	13	1941	1	Standard
	C	**13**		ug/L			30879	54965	0	Standard
	Cl	**37**		ug/L			8137590	8302608	0	Standard
>	**Sc**	**45**		ug/L			1506324	1672825	1	Standard
	V	**51**	**44.413**	ug/L	0.407	0	7630	1546997	0	Standard
	V-1	**51**	**44.922**	ug/L	0.435	0	137	1552832	0	Standard
		52		ug/L	0.347	0	22519	1391879	0	Standard
	Cr	**53**	**48.377**	ug/L	0.541	1	148	159148	0	Standard
	Mn	**55**	**463.552**	ug/L	5.021	1	1780	21022777	0	Standard
>	**Ge**	**72**		ug/L			97794	90825	0	KED
		60		ug/L	0.935	1	15	101125	0	KED
	Ni	**62**	**68.669**	ug/L	0.951	1	2	16649	0	KED
		63		ug/L	0.424	1	99	152492	0	KED
	Cu	**65**	**35.398**	ug/L	0.412	1	53	76937	0	KED
		66		ug/L	0.435	0	300	41747	0	KED
	Zn	**67**	**67.185**	ug/L	1.207	1	50	6963	1	KED
		75		ug/L	0.091	3	4	777	3	KED
		78		ug/L	0.047	6	11	36	5	KED
	Y	**89**		ug/L			893628	1289322	1	Standard
	Kr	**83**		ug/L			62	155	8	Standard
>	**In-1**	**115**		ug/L			27117	24106	2	KED
		111		ug/L	0.008	7	3	40	7	KED
	Cd	**114**	**0.115**	ug/L	0.014	11	3	101	9	KED
>	**In**	**115**		ug/L			1764814	1690563	0	Standard
		107		ug/L	0.005	5	70	2134	5	Standard
		121		ug/L	0.004	112	359	424	21	Standard
	Sb	**123**	**0.004**	ug/L	0.004	98	300	360	20	Standard
	Ba	**135**	**106.734**	ug/L	1.473	1	33	707613	0	Standard
	Ba	**137**	**108.289**	ug/L	1.755	1	55	1203199	0	Standard
>	**Tb**	**159**		ug/L			2798401	3001022	0	Standard
		205		ug/L	0.005	5	80	8683	5	Standard
		208		ug/L	0.033	0	353	543317	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 20:58:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1122449	3	Standard
		9		ug/L	0.006	3	13	1038	4	Standard
	C	**13**		ug/L			30879	59758	1	Standard
	Cl	**37**		ug/L			8137590	8160543	1	Standard
>	**Sc**	**45**		ug/L			1506324	1540994	0	Standard
	V	**51**	**34.783**	ug/L	0.545	1	7630	1117909	2	Standard
	V-1	**51**	**34.977**	ug/L	0.500	1	137	1113941	1	Standard
		52		ug/L	0.199	1	22519	310035	2	Standard
	Cr	**53**	**11.103**	ug/L	0.103	0	148	33765	0	Standard
	Mn	**55**	**91.007**	ug/L	0.877	0	1780	3803804	1	Standard
>	**Ge**	**72**		ug/L			97794	92715	0	KED
		60		ug/L	0.090	1	15	12725	0	KED
	Ni	**62**	**8.357**	ug/L	0.175	2	2	2070	1	KED
		63		ug/L	0.110	0	99	76689	0	KED
	Cu	**65**	**17.537**	ug/L	0.470	2	53	38933	2	KED
		66		ug/L	0.326	1	300	13330	1	KED
	Zn	**67**	**20.535**	ug/L	0.558	2	50	2205	2	KED
		75		ug/L	0.065	1	4	1031	1	KED
		78		ug/L	0.135	18	11	35	13	KED
	Y	**89**		ug/L			893628	1174829	1	Standard
	Kr	**83**		ug/L			62	90	22	Standard
>	**In-1**	**115**		ug/L			27117	24859	0	KED
		111		ug/L	0.015	87	3	8	59	KED
	Cd	**114**	**0.028**	ug/L	0.008	27	3	28	24	KED
>	**In**	**115**		ug/L			1764814	1710982	0	Standard
		107		ug/L	0.002	4	70	1284	4	Standard
		121		ug/L	0.000	24	359	306	3	Standard
	Sb	**123**	**-0.003**	ug/L	0.000	6	300	236	1	Standard
	Ba	**135**	**25.838**	ug/L	0.308	1	33	173397	0	Standard
	Ba	**137**	**25.958**	ug/L	0.250	0	55	291976	1	Standard
>	**Tb**	**159**		ug/L			2798401	2922198	1	Standard
		205		ug/L	0.001	2	80	4251	1	Standard
		208		ug/L	0.019	0	353	284991	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:05:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1130066	1	Standard
		9		ug/L	0.003	1	13	1215	1	Standard
	C	**13**		ug/L			30879	54863	0	Standard
	Cl	**37**		ug/L			8137590	8250032	0	Standard
>	**Sc**	**45**		ug/L			1506324	1583055	0	Standard
	V	**51**	**36.978**	ug/L	0.366	0	7630	1220322	0	Standard
	V-1	**51**	**37.486**	ug/L	0.371	0	137	1226350	0	Standard
		52		ug/L	0.282	0	22519	960550	0	Standard
	Cr	**53**	**35.469**	ug/L	0.400	1	148	110469	0	Standard
	Mn	**55**	**313.135**	ug/L	5.283	1	1780	13441143	1	Standard
>	**Ge**	**72**		ug/L			97794	92054	0	KED
		60		ug/L	0.512	1	15	75798	0	KED
	Ni	**62**	**49.826**	ug/L	0.447	0	2	12245	0	KED
		63		ug/L	0.115	0	99	96281	0	KED
	Cu	**65**	**21.782**	ug/L	0.226	1	53	48005	0	KED
		66		ug/L	0.378	0	300	26640	0	KED
	Zn	**67**	**42.374**	ug/L	0.179	0	50	4469	0	KED
		75		ug/L	0.064	1	4	1131	2	KED
		78		ug/L	0.109	19	11	29	12	KED
	Y	**89**		ug/L			893628	1179782	0	Standard
	Kr	**83**		ug/L			62	135	10	Standard
>	**In-1**	**115**		ug/L			27117	24957	0	KED
		111		ug/L	0.022	26	3	31	23	KED
	Cd	**114**	**0.074**	ug/L	0.014	19	3	69	17	KED
>	**In**	**115**		ug/L			1764814	1694298	0	Standard
		107		ug/L	0.002	2	70	1322	2	Standard
		121	-	ug/L	0.000	18	359	278	4	Standard
	Sb	**123**	**-0.004**	ug/L	0.000	1	300	218	1	Standard
	Ba	**135**	**70.850**	ug/L	0.878	1	33	470766	0	Standard
	Ba	**137**	**71.679**	ug/L	1.027	1	55	798210	0	Standard
>	**Tb**	**159**		ug/L			2798401	2976092	0	Standard
		205		ug/L	0.001	1	80	5518	1	Standard
		208		ug/L	0.037	1	353	371976	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:10:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1143607	1	Standard
		9		ug/L	0.005	6	13	445	5	Standard
	C	**13**		ug/L			30879	57357	1	Standard
	Cl	**37**		ug/L			8137590	8132756	1	Standard
>	**Sc**	**45**		ug/L			1506324	1523739	1	Standard
	V	**51**	**24.802**	ug/L	0.374	1	7630	790353	1	Standard
	V-1	**51**	**24.922**	ug/L	0.386	1	137	784821	2	Standard
		52		ug/L	0.166	2	22519	189977	0	Standard
	Cr	**53**	**6.530**	ug/L	0.119	1	148	19698	1	Standard
	Mn	**55**	**79.015**	ug/L	1.334	1	1780	3265552	1	Standard
>	**Ge**	**72**		ug/L			97794	93108	1	KED
		60		ug/L	0.058	1	15	7008	1	KED
	Ni	**62**	**4.702**	ug/L	0.158	3	2	1170	2	KED
		63		ug/L	0.085	1	99	37035	1	KED
	Cu	**65**	**8.323**	ug/L	0.084	1	53	18584	0	KED
		66		ug/L	0.252	1	300	9999	0	KED
	Zn	**67**	**15.482**	ug/L	0.146	0	50	1682	1	KED
		75		ug/L	0.039	2	4	429	1	KED
		78		ug/L	0.085	23	11	23	13	KED
	Y	**89**		ug/L			893628	1050900	1	Standard
	Kr	**83**		ug/L			62	70	12	Standard
>	**In-1**	**115**		ug/L			27117	25770	1	KED
		111		ug/L	0.013	134	3	6	69	KED
	Cd	**114**	**0.016**	ug/L	0.007	39	3	18	33	KED
>	**In**	**115**		ug/L			1764814	1735634	0	Standard
		107		ug/L	0.001	1	70	763	1	Standard
		121		ug/L	0.001	27	359	258	10	Standard
	Sb	**123**	**-0.004**	ug/L	0.001	16	300	215	6	Standard
	Ba	**135**	**13.063**	ug/L	0.100	0	33	88943	0	Standard
	Ba	**137**	**13.067**	ug/L	0.065	0	55	149118	0	Standard
>	**Tb**	**159**		ug/L			2798401	2906549	1	Standard
		205		ug/L	0.001	2	80	2150	2	Standard
		208		ug/L	0.009	0	353	125126	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:15:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1140434	1	Standard
		9		ug/L	0.020	12	13	894	13	Standard
	C	**13**		ug/L			30879	63407	1	Standard
	Cl	**37**		ug/L			8137590	8138472	1	Standard
>	**Sc**	**45**		ug/L			1506324	1586980	1	Standard
	V	**51**	**29.405**	ug/L	0.215	0	7630	974420	0	Standard
	V-1	**51**	**29.575**	ug/L	0.203	0	137	969942	0	Standard
		52		ug/L	0.140	1	22519	303521	0	Standard
	Cr	**53**	**10.491**	ug/L	0.099	0	148	32866	0	Standard
	Mn	**55**	**66.558**	ug/L	0.433	0	1780	2865619	1	Standard
>	**Ge**	**72**		ug/L			97794	93200	1	KED
		60		ug/L	0.110	1	15	10338	0	KED
	Ni	**62**	**6.899**	ug/L	0.181	2	2	1718	2	KED
		63		ug/L	0.182	0	99	84035	0	KED
	Cu	**65**	**19.094**	ug/L	0.118	0	53	42612	1	KED
		66		ug/L	0.504	2	300	11542	2	KED
	Zn	**67**	**17.450**	ug/L	0.062	0	50	1891	1	KED
		75		ug/L	0.072	1	4	1178	1	KED
		78		ug/L	0.224	36	11	31	25	KED
	Y	**89**		ug/L			893628	1179388	1	Standard
	Kr	**83**		ug/L			62	75	11	Standard
>	**In-1**	**115**		ug/L			27117	25145	0	KED
		111		ug/L	0.004	15	3	11	12	KED
	Cd	**114**	**0.020**	ug/L	0.008	43	3	20	36	KED
>	**In**	**115**		ug/L			1764814	1712560	1	Standard
		107		ug/L	0.010	16	70	1537	16	Standard
		121		ug/L	0.010	3962	359	356	70	Standard
	Sb	**123**	**-0.000**	ug/L	0.010	2217	300	284	65	Standard
	Ba	**135**	**24.638**	ug/L	0.601	2	33	165451	0	Standard
	Ba	**137**	**24.799**	ug/L	0.304	1	55	279155	1	Standard
>	**Tb**	**159**		ug/L			2798401	2939536	0	Standard
		205		ug/L	0.011	18	80	5635	19	Standard
		208		ug/L	0.013	0	353	297540	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:20:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1118044	3	Standard
		9		ug/L	0.010	12	13	474	11	Standard
	C	**13**		ug/L			30879	56411	0	Standard
	Cl	**37**		ug/L			8137590	8238364	1	Standard
>	**Sc**	**45**		ug/L			1506324	1523767	0	Standard
	V	**51**	**27.584**	ug/L	0.270	0	7630	878168	0	Standard
	V-1	**51**	**27.715**	ug/L	0.302	1	137	872740	0	Standard
		52		ug/L	0.083	1	22519	218876	1	Standard
	Cr	**53**	**7.632**	ug/L	0.099	1	148	22997	0	Standard
	Mn	**55**	**78.603**	ug/L	0.571	0	1780	3248834	0	Standard
>	**Ge**	**72**		ug/L			97794	91845	0	KED
		60		ug/L	0.144	2	15	8838	2	KED
	Ni	**62**	**5.813**	ug/L	0.242	4	2	1427	3	KED
		63		ug/L	0.031	0	99	33341	0	KED
	Cu	**65**	**7.573**	ug/L	0.091	1	53	16684	0	KED
		66		ug/L	0.471	2	300	12306	1	KED
	Zn	**67**	**18.044**	ug/L	0.093	0	50	1925	0	KED
		75		ug/L	0.044	2	4	464	2	KED
		78		ug/L	0.038	9	11	23	5	KED
	Y	**89**		ug/L			893628	1089572	0	Standard
	Kr	**83**		ug/L			62	78	13	Standard
>	**In-1**	**115**		ug/L			27117	24701	1	KED
		111		ug/L	0.010	70	3	7	45	KED
	Cd	**114**	**0.017**	ug/L	0.001	8	3	17	6	KED
>	**In**	**115**		ug/L			1764814	1711035	0	Standard
		107		ug/L	0.002	8	70	723	8	Standard
		121		ug/L	0.001	11	359	200	8	Standard
	Sb	**123**	**-0.009**	ug/L	0.001	8	300	130	10	Standard
	Ba	**135**	**14.552**	ug/L	0.062	0	33	97676	0	Standard
	Ba	**137**	**14.663**	ug/L	0.143	0	55	164950	1	Standard
>	**Tb**	**159**		ug/L			2798401	2901871	1	Standard
		205		ug/L	0.001	4	80	2435	3	Standard
		208		ug/L	0.014	0	353	243609	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:25:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1109949	2	Standard
		9		ug/L	0.006	6	13	497	7	Standard
	C	**13**		ug/L			30879	57474	0	Standard
	Cl	**37**		ug/L			8137590	8176633	0	Standard
>	**Sc**	**45**		ug/L			1506324	1492710	0	Standard
	V	**51**	**28.482**	ug/L	0.545	1	7630	888058	1	Standard
	V-1	**51**	**28.655**	ug/L	0.529	1	137	883993	1	Standard
		52		ug/L	0.118	1	22519	246132	1	Standard
	Cr	**53**	**8.990**	ug/L	0.062	0	148	26513	0	Standard
	Mn	**55**	**97.133**	ug/L	1.577	1	1780	3932605	1	Standard
>	**Ge**	**72**		ug/L			97794	91689	0	KED
		60		ug/L	0.054	0	15	8414	0	KED
	Ni	**62**	**5.541**	ug/L	0.167	3	2	1358	3	KED
		63		ug/L	0.163	1	99	40067	1	KED
	Cu	**65**	**9.143**	ug/L	0.204	2	53	20096	1	KED
		66		ug/L	0.382	2	300	11599	1	KED
	Zn	**67**	**17.214**	ug/L	0.263	1	50	1836	1	KED
		75		ug/L	0.051	3	4	450	3	KED
		78		ug/L	0.075	19	11	23	10	KED
	Y	**89**		ug/L			893628	1082447	1	Standard
	Kr	**83**		ug/L			62	81	0	Standard
>	**In-1**	**115**		ug/L			27117	24627	1	KED
		111		ug/L	0.006	49	3	6	28	KED
	Cd	**114**	**0.017**	ug/L	0.008	46	3	17	36	KED
>	**In**	**115**		ug/L			1764814	1715691	0	Standard
		107		ug/L	0.001	3	70	825	2	Standard
		121		ug/L	0.000	16	359	284	3	Standard
	Sb	**123**	**-0.004**	ug/L	0.000	9	300	223	2	Standard
	Ba	**135**	**17.166**	ug/L	0.289	1	33	115523	1	Standard
	Ba	**137**	**17.315**	ug/L	0.191	1	55	195301	0	Standard
>	**Tb**	**159**		ug/L			2798401	2872144	0	Standard
		205		ug/L	0.001	3	80	2160	2	Standard
		208		ug/L	0.019	0	353	325893	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:32:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1107843	3	Standard
	Be	**9**	**-0.001**	ug/L	0.000	52	13	8	35	Standard
	C	**13**		ug/L			30879	30643	0	Standard
	Cl	**37**		ug/L			8137590	7903626	0	Standard
>	**Sc**	**45**		ug/L			1506324	1423925	0	Standard
	V	**51**	**-0.007**	ug/L	0.004	48	7630	6997	1	Standard
	V-1	**51**	**-0.000**	ug/L	0.000	88	137	125	4	Standard
	Cr	**52**	**-0.021**	ug/L	0.004	21	22519	20762	0	Standard
	Cr	**53**	**0.003**	ug/L	0.007	255	148	148	13	Standard
	Mn	**55**	**-0.021**	ug/L	0.001	5	1780	867	4	Standard
>	**Ge**	**72**		ug/L			97794	91282	1	KED
	Ni	**60**	**-0.000**	ug/L	0.003	1721	15	14	27	KED
	Ni	**62**	**0.022**	ug/L	0.016	73	2	7	50	KED
	Cu	**63**	**0.002**	ug/L	0.004	165	99	103	17	KED
	Cu	**65**	**0.003**	ug/L	0.002	72	53	55	6	KED
	Zn	**66**	**-0.338**	ug/L	0.011	3	300	68	11	KED
	Zn	**67**	**-0.354**	ug/L	0.056	15	50	10	57	KED
	As	**75**	**0.005**	ug/L	0.007	148	4	5	39	KED
	Se	**78**	**0.012**	ug/L	0.083	695	11	10	25	KED
	Y	**89**		ug/L			893628	867010	1	Standard
	Kr	**83**		ug/L			62	60	20	Standard
>	**In-1**	**115**		ug/L			27117	25181	1	KED
	Cd	**111**	**-0.002**	ug/L	0.006	269	3	2	89	KED
	Cd	**114**	**-0.002**	ug/L	0.002	116	3	1	120	KED
>	**In**	**115**		ug/L			1764814	1700245	0	Standard
	Ag	**107**	**-0.000**	ug/L	0.000	522	70	66	8	Standard
	Sb	**121**	**-0.009**	ug/L	0.001	10	359	116	20	Standard
	Sb	**123**	**-0.010**	ug/L	0.001	13	300	101	25	Standard
	Ba	**135**	**0.001**	ug/L	0.002	183	33	39	32	Standard
	Ba	**137**	**0.004**	ug/L	0.002	41	55	96	17	Standard
>	**Tb**	**159**		ug/L			2798401	2704121	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	59	80	71	5	Standard
	Pb	**208**	**0.006**	ug/L	0.001	10	353	1058	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:37:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1091967	3	Standard
	Be	**9**	**48.655**	ug/L	0.665	1	13	266145	2	Standard
	C	**13**		ug/L			30879	29638	1	Standard
	Cl	**37**		ug/L			8137590	8601566	0	Standard
>	**Sc**	**45**		ug/L			1506324	1410644	0	Standard
	V	**51**	**47.023**	ug/L	0.203	0	7630	1380911	0	Standard
	V-1	**51**	**47.636**	ug/L	0.364	0	137	1388710	1	Standard
	Cr	**52**	**47.503**	ug/L	0.353	0	22519	1194926	0	Standard
	Cr	**53**	**49.570**	ug/L	0.670	1	148	137520	1	Standard
	Mn	**55**	**49.034**	ug/L	0.446	0	1780	1876818	0	Standard
>	**Ge**	**72**		ug/L			97794	86674	4	KED
	Ni	**60**	**51.956**	ug/L	2.490	4	15	73349	0	KED
	Ni	**62**	**51.867**	ug/L	2.824	5	2	11982	0	KED
	Cu	**63**	**53.013**	ug/L	2.971	5	99	217599	0	KED
	Cu	**65**	**52.558**	ug/L	2.079	3	53	108865	1	KED
	Zn	**66**	**52.841**	ug/L	2.288	4	300	31786	1	KED
	Zn	**67**	**52.287**	ug/L	4.199	8	50	5169	3	KED
	As	**75**	**51.364**	ug/L	2.353	4	4	14732	0	KED
	Se	**78**	**51.601**	ug/L	1.913	3	11	1657	2	KED
	Y	**89**		ug/L			893628	865818	1	Standard
	Kr	**83**		ug/L			62	69	13	Standard
>	**In-1**	**115**		ug/L			27117	23822	1	KED
	Cd	**111**	**52.498**	ug/L	0.770	1	3	17195	0	KED
	Cd	**114**	**52.719**	ug/L	0.763	1	3	44630	1	KED
>	**In**	**115**		ug/L			1764814	1678794	0	Standard
	Ag	**107**	**49.699**	ug/L	0.492	0	70	1159253	1	Standard
	Sb	**121**	**47.641**	ug/L	0.319	0	359	1182333	0	Standard
	Sb	**123**	**49.625**	ug/L	0.239	0	300	891849	0	Standard
	Ba	**135**	**45.706**	ug/L	0.569	1	33	300949	1	Standard
	Ba	**137**	**45.991**	ug/L	0.498	1	55	507519	1	Standard
>	**Tb**	**159**		ug/L			2798401	2782198	1	Standard
	Tl	**205**	**51.549**	ug/L	0.326	0	80	4593580	0	Standard
	Pb	**208**	**49.251**	ug/L	0.692	1	353	5923669	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:44:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1119681	2	Standard
	Be	**9**	**-0.001**	ug/L	0.001	176	13	10	60	Standard
	C	**13**		ug/L			30879	30693	0	Standard
	Cl	**37**		ug/L			8137590	8131947	0	Standard
>	**Sc**	**45**		ug/L			1506324	1430625	0	Standard
	V	**51**	**0.010**	ug/L	0.003	29	7630	7546	1	Standard
	V-1	**51**	**0.000**	ug/L	0.000	23	137	139	1	Standard
	Cr	**52**	**0.036**	ug/L	0.012	33	22519	22296	1	Standard
	Cr	**53**	**0.003**	ug/L	0.003	92	148	150	5	Standard
	Mn	**55**	**-0.013**	ug/L	0.001	9	1780	1194	4	Standard
>	**Ge**	**72**		ug/L			97794	91069	1	KED
	Ni	**60**	**0.001**	ug/L	0.002	136	15	16	13	KED
	Ni	**62**	**0.019**	ug/L	0.009	46	2	6	31	KED
	Cu	**63**	**0.005**	ug/L	0.007	137	99	115	27	KED
	Cu	**65**	**0.006**	ug/L	0.003	43	53	62	8	KED
	Zn	**66**	**-0.146**	ug/L	0.040	27	300	188	14	KED
	Zn	**67**	**-0.138**	ug/L	0.114	82	50	32	35	KED
	As	**75**	**-0.003**	ug/L	0.001	32	4	3	9	KED
	Se	**78**	**0.106**	ug/L	0.064	59	11	13	16	KED
	Y	**89**		ug/L			893628	874874	1	Standard
	Kr	**83**		ug/L			62	60	8	Standard
>	**In-1**	**115**		ug/L			27117	24779	1	KED
	Cd	**111**	**-0.001**	ug/L	0.004	401	3	2	57	KED
	Cd	**114**	**0.001**	ug/L	0.006	568	3	4	114	KED
>	**In**	**115**		ug/L			1764814	1699828	1	Standard
	Ag	**107**	**0.002**	ug/L	0.000	16	70	115	7	Standard
	Sb	**121**	**0.026**	ug/L	0.001	2	359	1007	2	Standard
	Sb	**123**	**0.025**	ug/L	0.004	15	300	742	8	Standard
	Ba	**135**	**0.010**	ug/L	0.003	26	33	97	16	Standard
	Ba	**137**	**0.010**	ug/L	0.001	10	55	160	5	Standard
>	**Tb**	**159**		ug/L			2798401	2731362	1	Standard
	Tl	**205**	**0.002**	ug/L	0.000	21	80	225	13	Standard
	Pb	**208**	**0.002**	ug/L	0.000	17	353	600	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:49:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1127413	1	Standard
		9		ug/L	0.017	4	13	2229	5	Standard
	C	**13**		ug/L			30879	60661	0	Standard
	Cl	**37**		ug/L			8137590	8131213	1	Standard
>	**Sc**	**45**		ug/L			1506324	1540433	1	Standard
	V	**51**	**37.291**	ug/L	0.054	0	7630	1197475	1	Standard
	V-1	**51**	**37.525**	ug/L	0.026	0	137	1194619	1	Standard
		52		ug/L	0.203	1	22519	327742	1	Standard
	Cr	**53**	**11.887**	ug/L	0.220	1	148	36121	0	Standard
	Mn	**55**	**85.513**	ug/L	1.753	2	1780	3572762	1	Standard
>	**Ge**	**72**		ug/L			97794	91228	0	KED
		60		ug/L	0.265	1	15	33297	1	KED
	Ni	**62**	**22.586**	ug/L	0.469	2	2	5502	2	KED
		63		ug/L	0.115	0	99	74641	1	KED
	Cu	**65**	**17.386**	ug/L	0.042	0	53	37983	0	KED
		66		ug/L	0.716	1	300	35648	0	KED
	Zn	**67**	**53.814**	ug/L	0.712	1	50	5612	1	KED
		75		ug/L	0.049	1	4	892	1	KED
		78		ug/L	0.069	6	11	43	4	KED
	Y	**89**		ug/L			893628	1436232	1	Standard
	Kr	**83**		ug/L			62	103	8	Standard
>	**In-1**	**115**		ug/L			27117	24452	1	KED
		111		ug/L	0.018	27	3	24	25	KED
	Cd	**114**	**0.060**	ug/L	0.007	11	3	55	11	KED
>	**In**	**115**		ug/L			1764814	1697306	1	Standard
		107		ug/L	0.001	2	70	1246	2	Standard
		121		ug/L	0.000	3	359	555	1	Standard
	Sb	**123**	**0.007**	ug/L	0.001	11	300	416	4	Standard
	Ba	**135**	**23.436**	ug/L	0.173	0	33	156035	1	Standard
	Ba	**137**	**23.678**	ug/L	0.267	1	55	264171	0	Standard
>	**Tb**	**159**		ug/L			2798401	2946675	0	Standard
		205		ug/L	0.001	2	80	4408	3	Standard
		208		ug/L	0.028	1	353	301391	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:54:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1129525	2	Standard
		9		ug/L	0.069	47	13	838	47	Standard
	C	**13**		ug/L			30879	53748	1	Standard
	Cl	**37**		ug/L			8137590	8160058	1	Standard
>	**Sc**	**45**		ug/L			1506324	1536253	1	Standard
	V	**51**	**28.690**	ug/L	0.399	1	7630	920539	1	Standard
	V-1	**51**	**28.848**	ug/L	0.364	1	137	915888	1	Standard
		52		ug/L	0.191	2	22519	253354	2	Standard
	Cr	**53**	**8.941**	ug/L	0.134	1	148	27141	2	Standard
	Mn	**55**	**86.530**	ug/L	0.957	1	1780	3605550	1	Standard
>	**Ge**	**72**		ug/L			97794	91587	0	KED
		60		ug/L	0.027	0	15	11287	1	KED
	Ni	**62**	**7.460**	ug/L	0.170	2	2	1826	2	KED
		63		ug/L	0.031	0	99	61092	0	KED
	Cu	**65**	**13.971**	ug/L	0.084	0	53	30653	1	KED
		66		ug/L	0.227	0	300	15943	0	KED
	Zn	**67**	**24.595**	ug/L	0.557	2	50	2600	2	KED
		75		ug/L	0.038	2	4	556	2	KED
		78		ug/L	0.057	10	11	28	6	KED
	Y	**89**		ug/L			893628	1128433	2	Standard
	Kr	**83**		ug/L			62	97	11	Standard
>	**In-1**	**115**		ug/L			27117	18961	26	KED
	Cd	**111**	**0.046**	ug/L	0.028	60	3	13	32	KED
	Cd	**114**	**0.049**	ug/L	0.014	27	3	34	14	KED
>	**In**	**115**		ug/L			1764814	1725241	1	Standard
		107		ug/L	0.068	86	70	1951	85	Standard
		121		ug/L	0.071	158	359	1508	122	Standard
	Sb	**123**	**0.045**	ug/L	0.072	160	300	1138	120	Standard
	Ba	**135**	**16.761**	ug/L	0.301	1	33	113408	0	Standard
	Ba	**137**	**16.720**	ug/L	0.104	0	55	189633	1	Standard
>	**Tb**	**159**		ug/L			2798401	2935546	0	Standard
		205		ug/L	0.067	97	80	6563	96	Standard
		208		ug/L	0.065	1	353	486023	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 21:59:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1144826	1	Standard
		9		ug/L	0.002	2	13	535	3	Standard
	C	**13**		ug/L			30879	52430	0	Standard
	Cl	**37**		ug/L			8137590	8146216	0	Standard
>	**Sc**	**45**		ug/L			1506324	1525171	1	Standard
	V	**51**	**23.199**	ug/L	0.049	0	7630	740488	1	Standard
	V-1	**51**	**23.318**	ug/L	0.079	0	137	734982	1	Standard
		52		ug/L	0.047	0	22519	212257	1	Standard
	Cr	**53**	**7.368**	ug/L	0.122	1	148	22224	0	Standard
	Mn	**55**	**66.728**	ug/L	0.208	0	1780	2760973	2	Standard
>	**Ge**	**72**		ug/L			97794	91439	0	KED
		60		ug/L	0.012	0	15	8751	0	KED
	Ni	**62**	**5.883**	ug/L	0.390	6	2	1438	6	KED
		63		ug/L	0.062	0	99	37131	0	KED
	Cu	**65**	**8.468**	ug/L	0.104	1	53	18569	1	KED
		66		ug/L	0.147	0	300	11531	0	KED
	Zn	**67**	**17.967**	ug/L	0.206	1	50	1909	0	KED
		75		ug/L	0.009	0	4	434	0	KED
		78		ug/L	0.008	2	11	21	1	KED
	Y	**89**		ug/L			893628	1085126	1	Standard
	Kr	**83**		ug/L			62	73	8	Standard
>	**In-1**	**115**		ug/L			27117	24665	0	KED
		111		ug/L	0.013	41	3	13	32	KED
	Cd	**114**	**0.030**	ug/L	0.008	27	3	29	24	KED
>	**In**	**115**		ug/L			1764814	1722521	2	Standard
		107		ug/L	0.001	3	70	755	4	Standard
		121		ug/L	0.002	184	359	374	9	Standard
	Sb	**123**	**-0.001**	ug/L	0.002	154	300	271	10	Standard
	Ba	**135**	**16.733**	ug/L	0.507	3	33	113002	0	Standard
	Ba	**137**	**16.837**	ug/L	0.422	2	55	190588	0	Standard
>	**Tb**	**159**		ug/L			2798401	2909876	0	Standard
		205		ug/L	0.000	1	80	2232	1	Standard
		208		ug/L	0.025	0	353	326988	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:04:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1109135	1	Standard
		9		ug/L	0.015	5	13	1700	3	Standard
	C	**13**		ug/L			30879	53318	0	Standard
	Cl	**37**		ug/L			8137590	8231252	0	Standard
>	**Sc**	**45**		ug/L			1506324	1626268	0	Standard
	V	**51**	**49.231**	ug/L	0.143	0	7630	1666337	0	Standard
	V-1	**51**	**49.761**	ug/L	0.210	0	137	1672322	0	Standard
		52		ug/L	0.551	1	22519	1228360	1	Standard
	Cr	**53**	**43.990**	ug/L	0.395	0	148	140718	1	Standard
	Mn	**55**	**456.916**	ug/L	2.722	0	1780	20147156	0	Standard
>	**Ge**	**72**		ug/L			97794	88658	0	KED
		60		ug/L	0.916	1	15	97997	1	KED
	Ni	**62**	**68.895**	ug/L	0.610	0	2	16307	1	KED
		63		ug/L	0.341	1	99	140295	0	KED
	Cu	**65**	**33.702**	ug/L	0.591	1	53	71505	1	KED
		66		ug/L	1.001	1	300	39292	1	KED
	Zn	**67**	**65.235**	ug/L	0.247	0	50	6602	0	KED
		75		ug/L	0.151	3	4	1418	2	KED
		78		ug/L	0.008	1	11	33	0	KED
	Y	**89**		ug/L			893628	1281814	0	Standard
	Kr	**83**		ug/L			62	147	2	Standard
>	**In-1**	**115**		ug/L			27117	23690	0	KED
		111		ug/L	0.015	7	3	70	7	KED
	Cd	**114**	**0.220**	ug/L	0.027	12	3	188	11	KED
>	**In**	**115**		ug/L			1764814	1668274	0	Standard
		107		ug/L	0.005	5	70	2039	4	Standard
		121		ug/L	0.001	25	359	276	4	Standard
	Sb	**123**	**-0.003**	ug/L	0.001	17	300	226	4	Standard
	Ba	**135**	**96.356**	ug/L	2.232	2	33	630351	1	Standard
	Ba	**137**	**98.177**	ug/L	2.011	2	55	1076437	1	Standard
>	**Tb**	**159**		ug/L			2798401	2998469	0	Standard
		205		ug/L	0.002	1	80	7753	1	Standard
		208		ug/L	0.058	1	353	745338	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:09:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1120011	1	Standard
		9		ug/L	0.001	1	13	624	2	Standard
	C	**13**		ug/L			30879	57531	0	Standard
	Cl	**37**		ug/L			8137590	8050320	0	Standard
>	**Sc**	**45**		ug/L			1506324	1511322	2	Standard
	V	**51**	**29.908**	ug/L	0.568	1	7630	943636	1	Standard
	V-1	**51**	**30.076**	ug/L	0.589	1	137	939262	1	Standard
		52		ug/L	0.064	0	22519	246306	1	Standard
	Cr	**53**	**8.853**	ug/L	0.131	1	148	26433	1	Standard
	Mn	**55**	**91.487**	ug/L	1.998	2	1780	3749317	1	Standard
>	**Ge**	**72**		ug/L			97794	91476	1	KED
		60		ug/L	0.038	0	15	10392	1	KED
	Ni	**62**	**7.034**	ug/L	0.295	4	2	1720	4	KED
		63		ug/L	0.179	1	99	40556	0	KED
	Cu	**65**	**9.489**	ug/L	0.117	1	53	20809	0	KED
		66		ug/L	0.425	2	300	13598	1	KED
	Zn	**67**	**20.289**	ug/L	0.472	2	50	2151	3	KED
		75		ug/L	0.038	1	4	659	2	KED
		78		ug/L	0.095	24	11	23	13	KED
	Y	**89**		ug/L			893628	1116574	2	Standard
	Kr	**83**		ug/L			62	83	6	Standard
>	**In-1**	**115**		ug/L			27117	25078	2	KED
		111		ug/L	0.008	23	3	14	16	KED
	Cd	**114**	**0.031**	ug/L	0.008	25	3	30	22	KED
>	**In**	**115**		ug/L			1764814	1729215	1	Standard
		107		ug/L	0.003	6	70	1107	4	Standard
		121		ug/L	0.001	30	359	453	6	Standard
	Sb	**123**	**0.003**	ug/L	0.001	39	300	351	6	Standard
	Ba	**135**	**19.982**	ug/L	0.573	2	33	135496	1	Standard
	Ba	**137**	**19.861**	ug/L	0.497	2	55	225721	0	Standard
>	**Tb**	**159**		ug/L			2798401	2895848	0	Standard
		205		ug/L	0.001	2	80	2605	2	Standard
		208		ug/L	0.062	1	353	526513	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:14:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1121291	4	Standard
		9		ug/L	0.003	3	13	464	2	Standard
	C	**13**		ug/L			30879	53507	0	Standard
	Cl	**37**		ug/L			8137590	8095961	0	Standard
>	**Sc**	**45**		ug/L			1506324	1506959	1	Standard
	V	**51**	**27.571**	ug/L	0.740	2	7630	868002	2	Standard
	V-1	**51**	**27.717**	ug/L	0.689	2	137	863153	2	Standard
		52		ug/L	0.135	1	22519	238305	1	Standard
	Cr	**53**	**8.521**	ug/L	0.048	0	148	25377	1	Standard
	Mn	**55**	**94.195**	ug/L	1.834	1	1780	3849469	1	Standard
>	**Ge**	**72**		ug/L			97794	91037	0	KED
		60		ug/L	0.009	0	15	8089	0	KED
	Ni	**62**	**5.436**	ug/L	0.309	5	2	1323	5	KED
		63		ug/L	0.014	0	99	34659	0	KED
	Cu	**65**	**7.939**	ug/L	0.021	0	53	17335	0	KED
		66		ug/L	0.197	1	300	10578	1	KED
	Zn	**67**	**16.374**	ug/L	0.217	1	50	1736	1	KED
		75		ug/L	0.033	2	4	487	1	KED
		78		ug/L	0.116	29	11	23	15	KED
	Y	**89**		ug/L			893628	1051631	1	Standard
	Kr	**83**		ug/L			62	81	11	Standard
>	**In-1**	**115**		ug/L			27117	24305	0	KED
		111		ug/L	0.009	53	3	8	35	KED
	Cd	**114**	**0.016**	ug/L	0.001	5	3	17	4	KED
>	**In**	**115**		ug/L			1764814	1717995	0	Standard
		107		ug/L	0.002	6	70	695	6	Standard
		121		ug/L	0.000	10	359	240	3	Standard
	Sb	**123**	**-0.004**	ug/L	0.001	28	300	227	8	Standard
	Ba	**135**	**15.559**	ug/L	0.156	1	33	104856	0	Standard
	Ba	**137**	**15.594**	ug/L	0.020	0	55	176133	0	Standard
>	**Tb**	**159**		ug/L			2798401	2895100	0	Standard
		205		ug/L	0.001	3	80	2341	2	Standard
		208		ug/L	0.004	0	353	180966	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:19:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1126399	1	Standard
	[redacted]	**9**	[redacted]	ug/L	0.007	7	13	544	8	Standard
	C	**13**		ug/L			30879	53284	0	Standard
	Cl	**37**		ug/L			8137590	8035199	0	Standard
>	**Sc**	**45**		ug/L			1506324	1527209	1	Standard
	V	**51**	**27.137**	ug/L	0.444	1	7630	865986	1	Standard
	V-1	**51**	**27.268**	ug/L	0.472	1	137	860628	1	Standard
	[redacted]	**52**	[redacted]	ug/L	0.124	1	22519	218974	0	Standard
	Cr	**53**	**7.626**	ug/L	0.044	0	148	23030	1	Standard
	Mn	**55**	**101.966**	ug/L	0.629	0	1780	4223325	0	Standard
>	**Ge**	**72**		ug/L			97794	91083	1	KED
	[redacted]	**60**	[redacted]	ug/L	0.144	2	15	8303	1	KED
	Ni	**62**	**5.512**	ug/L	0.161	2	2	1342	1	KED
	[redacted]	**63**	[redacted]	ug/L	0.123	1	99	37314	0	KED
	Cu	**65**	**8.673**	ug/L	0.153	1	53	18941	1	KED
	[redacted]	**66**	[redacted]	ug/L	0.271	1	300	10792	0	KED
	Zn	**67**	**16.899**	ug/L	0.309	1	50	1791	2	KED
	[redacted]	**75**	[redacted]	ug/L	0.052	3	4	474	2	KED
	[redacted]	**78**	[redacted]	ug/L	0.120	30	11	23	15	KED
	Y	**89**		ug/L			893628	1056859	0	Standard
	Kr	**83**		ug/L			62	83	18	Standard
>	**In-1**	**115**		ug/L			27117	24838	0	KED
	[redacted]	**111**	[redacted]	ug/L	0.010	65	3	7	42	KED
	Cd	**114**	**0.013**	ug/L	0.003	24	3	14	19	KED
>	**In**	**115**		ug/L			1764814	1714057	0	Standard
	[redacted]	**107**	[redacted]	ug/L	0.003	9	70	789	8	Standard
	[redacted]	**121**	[redacted]	ug/L	0.001	26	359	257	9	Standard
	Sb	**123**	**-0.005**	ug/L	0.001	13	300	205	5	Standard
	Ba	**135**	**17.023**	ug/L	0.180	1	33	114458	1	Standard
	Ba	**137**	**17.102**	ug/L	0.100	0	55	192723	0	Standard
>	**Tb**	**159**		ug/L			2798401	2864138	0	Standard
	[redacted]	**205**	[redacted]	ug/L	0.001	2	80	2607	1	Standard
	[redacted]	**208**	[redacted]	ug/L	0.018	1	353	188510	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:24:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1115902	2	Standard
		9		ug/L	0.632	2	13	144590	0	Standard
	C	**13**		ug/L			30879	51760	0	Standard
	Cl	**37**		ug/L			8137590	8220320	0	Standard
>	**Sc**	**45**		ug/L			1506324	1504214	0	Standard
	V	**51**	**52.828**	ug/L	0.829	1	7630	1653448	2	Standard
	V-1	**51**	**53.336**	ug/L	0.828	1	137	1658073	2	Standard
		52		ug/L	0.205	0	22519	889878	0	Standard
	Cr	**53**	**34.477**	ug/L	0.229	0	148	102035	0	Standard
	Mn	**55**	**129.256**	ug/L	1.009	0	1780	5272664	0	Standard
>	**Ge**	**72**		ug/L			97794	91404	0	KED
		60		ug/L	0.557	1	15	49038	1	KED
	Ni	**62**	**33.186**	ug/L	0.840	2	2	8099	2	KED
		63		ug/L	0.303	0	99	156921	0	KED
	Cu	**65**	**35.614**	ug/L	0.387	1	53	77905	1	KED
		66		ug/L	1.090	1	300	64346	0	KED
	Zn	**67**	**98.245**	ug/L	2.179	2	50	10226	1	KED
		75		ug/L	0.111	0	4	8190	0	KED
		78		ug/L	0.685	0	11	2663	1	KED
	Y	**89**		ug/L			893628	1064736	1	Standard
	Kr	**83**		ug/L			62	86	7	Standard
>	**In-1**	**115**		ug/L			27117	24531	1	KED
		111		ug/L	0.621	2	3	9290	0	KED
	Cd	**114**	**27.443**	ug/L	0.403	1	3	23925	0	KED
>	**In**	**115**		ug/L			1764814	1715951	0	Standard
		107		ug/L	0.410	1	70	645358	2	Standard
		121		ug/L	0.073	1	359	124654	1	Standard
	Sb	**123**	**5.171**	ug/L	0.047	0	300	95253	0	Standard
	Ba	**135**	**42.638**	ug/L	0.211	0	33	286954	0	Standard
	Ba	**137**	**42.460**	ug/L	0.444	1	55	478904	0	Standard
>	**Tb**	**159**		ug/L			2798401	2888826	0	Standard
		205		ug/L	0.249	0	80	2569734	0	Standard
		208		ug/L	0.183	0	353	3292582	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:29:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1141430	0	Standard
		9		ug/L	0.423	1	13	142217	1	Standard
	C	**13**		ug/L			30879	51491	1	Standard
	Cl	**37**		ug/L			8137590	8203994	1	Standard
>	**Sc**	**45**		ug/L			1506324	1523442	1	Standard
	V	**51**	**51.219**	ug/L	0.971	1	7630	1623668	2	Standard
	V-1	**51**	**51.642**	ug/L	0.868	1	137	1625800	2	Standard
		52		ug/L	0.587	1	22519	874411	1	Standard
	Cr	**53**	**33.191**	ug/L	0.261	0	148	99490	0	Standard
	Mn	**55**	**127.221**	ug/L	1.174	0	1780	5255862	0	Standard
>	**Ge**	**72**		ug/L			97794	90102	0	KED
		60		ug/L	0.316	0	15	47529	0	KED
	Ni	**62**	**32.803**	ug/L	0.382	1	2	7892	1	KED
		63		ug/L	0.233	0	99	155183	0	KED
	Cu	**65**	**36.041**	ug/L	0.270	0	53	77716	1	KED
		66		ug/L	1.603	1	300	62697	0	KED
	Zn	**67**	**97.511**	ug/L	1.213	1	50	10006	0	KED
		75		ug/L	0.110	0	4	8064	1	KED
		78		ug/L	1.003	1	11	2636	0	KED
	Y	**89**		ug/L			893628	1059524	1	Standard
	Kr	**83**		ug/L			62	86	19	Standard
>	**In-1**	**115**		ug/L			27117	24281	1	KED
		111		ug/L	0.160	0	3	9078	0	KED
	Cd	**114**	**27.407**	ug/L	0.146	0	3	23651	0	KED
>	**In**	**115**		ug/L			1764814	1719177	0	Standard
		107		ug/L	0.509	1	70	630980	1	Standard
		121		ug/L	0.064	1	359	112530	1	Standard
	Sb	**123**	**4.588**	ug/L	0.030	0	300	84713	0	Standard
	Ba	**135**	**40.694**	ug/L	0.253	0	33	274391	0	Standard
	Ba	**137**	**41.194**	ug/L	0.496	1	55	465512	0	Standard
>	**Tb**	**159**		ug/L			2798401	2925558	1	Standard
		205		ug/L	0.193	0	80	2528810	1	Standard
		208		ug/L	0.430	1	353	3246045	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:36:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1163400	1	Standard
	Be	**9**	**0.039**	ug/L	0.052	133	13	243	126	Standard
	C	**13**		ug/L			30879	30879	2	Standard
	Cl	**37**		ug/L			8137590	8014407	1	Standard
>	**Sc**	**45**		ug/L			1506324	1457286	0	Standard
	V	**51**	**0.109**	ug/L	0.165	150	7630	10692	46	Standard
	V-1	**51**	**0.119**	ug/L	0.170	142	137	3730	137	Standard
	Cr	**52**	**0.033**	ug/L	0.076	232	22519	22627	8	Standard
	Cr	**53**	**0.065**	ug/L	0.092	140	148	330	79	Standard
	Mn	**55**	**0.304**	ug/L	0.474	156	1780	13759	136	Standard
>	**Ge**	**72**		ug/L			97794	91413	0	KED
	Ni	**60**	**0.002**	ug/L	0.004	285	15	17	38	KED
	Ni	**62**	**0.011**	ug/L	0.016	146	2	5	78	KED
	Cu	**63**	**0.002**	ug/L	0.004	269	99	100	19	KED
	Cu	**65**	**0.001**	ug/L	0.003	257	53	52	11	KED
	Zn	**66**	**-0.330**	ug/L	0.006	1	300	73	5	KED
	Zn	**67**	**-0.348**	ug/L	0.028	8	50	10	26	KED
	As	**75**	**0.000**	ug/L	0.002	490	4	3	13	KED
	Se	**78**	**0.031**	ug/L	0.044	141	11	11	13	KED
	Y	**89**		ug/L			893628	878843	3	Standard
	Kr	**83**		ug/L			62	53	31	Standard
>	**In-1**	**115**		ug/L			27117	24738	1	KED
	Cd	**111**	**-0.006**	ug/L	0.003	49	3	0	100	KED
	Cd	**114**	**0.000**	ug/L	0.000	53	3	3	2	KED
>	**In**	**115**		ug/L			1764814	1708406	1	Standard
	Ag	**107**	**0.044**	ug/L	0.060	134	70	1128	126	Standard
	Sb	**121**	**-0.000**	ug/L	0.011	5128	359	343	79	Standard
	Sb	**123**	**-0.002**	ug/L	0.010	676	300	263	72	Standard
	Ba	**135**	**0.088**	ug/L	0.129	146	33	626	139	Standard
	Ba	**137**	**0.088**	ug/L	0.130	147	55	1044	140	Standard
>	**Tb**	**159**		ug/L			2798401	2763382	1	Standard
	Tl	**205**	**0.042**	ug/L	0.058	138	80	3793	136	Standard
	Pb	**208**	**0.051**	ug/L	0.062	120	353	6523	114	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:41:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1090476	2	Standard
	Be	**9**	**49.332**	ug/L	1.369	2	13	269400	0	Standard
	C	**13**		ug/L			30879	29687	1	Standard
	Cl	**37**		ug/L			8137590	8541554	0	Standard
>	**Sc**	**45**		ug/L			1506324	1387712	0	Standard
	V	**51**	**47.849**	ug/L	0.851	1	7630	1382261	2	Standard
	V-1	**51**	**48.341**	ug/L	0.683	1	137	1386366	1	Standard
	Cr	**52**	**48.594**	ug/L	0.047	0	22519	1202069	0	Standard
	Cr	**53**	**50.254**	ug/L	0.623	1	148	137146	0	Standard
	Mn	**55**	**49.847**	ug/L	0.205	0	1780	1876971	0	Standard
>	**Ge**	**72**		ug/L			97794	88311	0	KED
	Ni	**60**	**51.075**	ug/L	1.151	2	15	73568	1	KED
	Ni	**62**	**51.623**	ug/L	1.222	2	2	12170	1	KED
	Cu	**63**	**52.022**	ug/L	1.210	2	99	217917	1	KED
	Cu	**65**	**51.959**	ug/L	0.418	0	53	109787	0	KED
	Zn	**66**	**51.575**	ug/L	1.127	2	300	31654	1	KED
	Zn	**67**	**51.057**	ug/L	0.667	1	50	5156	0	KED
	As	**75**	**50.165**	ug/L	0.568	1	4	14680	0	KED
	Se	**78**	**49.891**	ug/L	1.751	3	11	1634	3	KED
	Y	**89**		ug/L			893628	856780	0	Standard
	Kr	**83**		ug/L			62	61	14	Standard
>	**In-1**	**115**		ug/L			27117	23687	1	KED
	Cd	**111**	**52.207**	ug/L	0.350	0	3	17004	0	KED
	Cd	**114**	**52.023**	ug/L	0.449	0	3	43795	1	KED
>	**In**	**115**		ug/L			1764814	1640575	0	Standard
	Ag	**107**	**50.510**	ug/L	0.148	0	70	1151343	0	Standard
	Sb	**121**	**48.160**	ug/L	0.232	0	359	1168006	0	Standard
	Sb	**123**	**50.352**	ug/L	0.191	0	300	884324	0	Standard
	Ba	**135**	**46.360**	ug/L	0.614	1	33	298287	0	Standard
	Ba	**137**	**46.233**	ug/L	0.629	1	55	498560	1	Standard
>	**Tb**	**159**		ug/L			2798401	2774730	1	Standard
	Tl	**205**	**51.689**	ug/L	0.551	1	80	4593515	0	Standard
	Pb	**208**	**48.783**	ug/L	0.696	1	353	5851547	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:48:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1134519	1	Standard
	Be	**9**	**0.001**	ug/L	0.001	171	13	18	46	Standard
	C	**13**		ug/L			30879	30868	1	Standard
	Cl	**37**		ug/L			8137590	8264256	0	Standard
>	**Sc**	**45**		ug/L			1506324	1421689	0	Standard
	V	**51**	**0.011**	ug/L	0.003	24	7630	7530	1	Standard
	V-1	**51**	**0.000**	ug/L	0.001	235	137	137	13	Standard
	Cr	**52**	**0.034**	ug/L	0.007	20	22519	22091	0	Standard
	Cr	**53**	**-0.003**	ug/L	0.010	333	148	132	20	Standard
	Mn	**55**	**-0.013**	ug/L	0.001	4	1780	1180	2	Standard
>	**Ge**	**72**		ug/L			97794	90971	0	KED
	Ni	**60**	**0.005**	ug/L	0.003	52	15	22	17	KED
	Ni	**62**	**-0.004**	ug/L	0.009	202	2	1	173	KED
	Cu	**63**	**0.007**	ug/L	0.003	38	99	121	8	KED
	Cu	**65**	**0.006**	ug/L	0.004	75	53	62	15	KED
	Zn	**66**	**-0.133**	ug/L	0.045	34	300	196	14	KED
	Zn	**67**	**-0.077**	ug/L	0.059	77	50	38	15	KED
	As	**75**	**-0.001**	ug/L	0.003	284	4	3	28	KED
	Se	**78**	**0.089**	ug/L	0.044	49	11	13	11	KED
	Y	**89**		ug/L			893628	853616	1	Standard
	Kr	**83**		ug/L			62	57	26	Standard
>	**In-1**	**115**		ug/L			27117	24752	0	KED
	Cd	**111**	**-0.003**	ug/L	0.000	0	3	1		KED
	Cd	**114**	**0.004**	ug/L	0.001	33	3	6	17	KED
>	**In**	**115**		ug/L			1764814	1678518	0	Standard
	Ag	**107**	**0.003**	ug/L	0.001	18	70	138	10	Standard
	Sb	**121**	**0.027**	ug/L	0.003	9	359	1011	6	Standard
	Sb	**123**	**0.032**	ug/L	0.000	0	300	856	0	Standard
	Ba	**135**	**0.013**	ug/L	0.000	2	33	120	1	Standard
	Ba	**137**	**0.015**	ug/L	0.002	13	55	216	9	Standard
>	**Tb**	**159**		ug/L			2798401	2757528	0	Standard
	Tl	**205**	**0.002**	ug/L	0.001	37	80	272	27	Standard
	Pb	**208**	**0.003**	ug/L	0.001	19	353	728	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:53:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1147971	3	Standard
	Be	**9**	**0.002**	ug/L	0.002	117	13	25	54	Standard
	C	**13**		ug/L			30879	38855	1	Standard
	Cl	**37**		ug/L			8137590	8134093	0	Standard
>	**Sc**	**45**		ug/L			1506324	1454957	1	Standard
	V	**51**	**0.016**	ug/L	0.003	21	7630	7842	0	Standard
	V-1	**51**	**0.004**	ug/L	0.001	18	137	252	9	Standard
		52		ug/L	0.011	24	22519	22912	1	Standard
	Cr	**53**	**0.006**	ug/L	0.004	59	148	161	8	Standard
	Mn	**55**	**-0.004**	ug/L	0.003	63	1780	1547	7	Standard
>	**Ge**	**72**		ug/L			97794	90508	1	KED
	Ni	**60**	**0.014**	ug/L	0.018	128	15	34	74	KED
	Ni	**62**	**0.038**	ug/L	0.041	109	2	11	86	KED
		63		ug/L	0.015	88	99	166	39	KED
	Cu	**65**	**0.017**	ug/L	0.018	109	53	85	45	KED
		66	**-**	ug/L	0.046	45	300	215	12	KED
	Zn	**67**	**-0.111**	ug/L	0.140	126	50	34	40	KED
		75		ug/L	0.008	267	4	4	52	KED
	Se	**78**	**0.133**	ug/L	0.113	85	11	14	26	KED
	Y	**89**		ug/L			893628	879485	0	Standard
	Kr	**83**		ug/L			62	52	9	Standard
>	**In-1**	**115**		ug/L			27117	24362	1	KED
		111		ug/L	0.001	13	3	6	8	KED
	Cd	**114**	**0.014**	ug/L	0.005	34	3	15	26	KED
>	**In**	**115**		ug/L			1764814	1684440	0	Standard
		107		ug/L	0.001	39	70	125	17	Standard
	Sb	**121**	**0.004**	ug/L	0.001	21	359	435	4	Standard
	Sb	**123**	**0.003**	ug/L	0.001	17	300	342	2	Standard
	Ba	**135**	**0.007**	ug/L	0.001	18	33	77	11	Standard
	Ba	**137**	**0.007**	ug/L	0.001	12	55	133	7	Standard
>	**Tb**	**159**		ug/L			2798401	2763575	1	Standard
	Tl	**205**	**0.002**	ug/L	0.000	15	80	252	11	Standard
	Pb	**208**	**0.005**	ug/L	0.001	17	353	932	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Wednesday, June 01, 2022 22:58:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1143279	1	Standard
⌊	**Be**	**9**	**23.993**	ug/L	0.738	3	13	137397	1	Standard
	C	**13**		ug/L			30879	37385	0	Standard
	Cl	**37**		ug/L			8137590	8185802	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1428840	1	Standard
|	**V**	**51**	**24.175**	ug/L	0.294	1	7630	722535	1	Standard
|	**V-1**	**51**	**24.480**	ug/L	0.336	1	137	722832	1	Standard
|	[redacted]	**52**	[redacted]	ug/L	0.255	1	22519	642661	1	Standard
|	**Cr**	**53**	**25.854**	ug/L	0.476	1	148	72715	2	Standard
⌊	**Mn**	**55**	**25.935**	ug/L	0.373	1	1780	1006146	0	Standard
⌈>	**Ge**	**72**		ug/L			97794	90658	0	KED
|	**Ni**	**60**	**26.018**	ug/L	0.810	3	15	38482	2	KED
|	**Ni**	**62**	**25.995**	ug/L	0.613	2	2	6292	1	KED
|	[redacted]	**63**	[redacted]	ug/L	0.392	1	99	115201	1	KED
|	**Cu**	**65**	**27.246**	ug/L	0.258	0	53	59126	1	KED
|	[redacted]	**66**	[redacted]	ug/L	0.638	0	300	51464	0	KED
|	**Zn**	**67**	**78.128**	ug/L	1.958	2	50	8076	2	KED
|	[redacted]	**75**	[redacted]	ug/L	0.235	0	4	7373	1	KED
⌊	**Se**	**78**	**76.081**	ug/L	1.673	2	11	2554	2	KED
	Y	**89**		ug/L			893628	873421	2	Standard
	Kr	**83**		ug/L			62	61	24	Standard
⌈>	**In-1**	**115**		ug/L			27117	24430	0	KED
|	[redacted]	**111**	[redacted]	ug/L	0.574	2	3	8733	2	KED
⌊	**Cd**	**114**	**26.248**	ug/L	0.316	1	3	22792	0	KED
⌈>	**In**	**115**		ug/L			1764814	1699904	0	Standard
|	[redacted]	**107**	[redacted]	ug/L	0.028	0	70	622974	0	Standard
|	**Sb**	**121**	**-0.002**	ug/L	0.001	40	359	298	6	Standard
|	**Sb**	**123**	**-0.004**	ug/L	0.001	23	300	221	7	Standard
|	**Ba**	**135**	**22.660**	ug/L	0.290	1	33	151086	1	Standard
⌊	**Ba**	**137**	**22.566**	ug/L	0.301	1	55	252161	0	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2729968	0	Standard
|	**Tl**	**205**	**27.836**	ug/L	0.090	0	80	2434049	0	Standard
⌊	**Pb**	**208**	**24.650**	ug/L	0.050	0	353	2909578	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:03:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1151242	2	Standard
	Be	**9**	**0.199**	ug/L	0.015	7	13	1157	5	Standard
	C	**13**		ug/L			30879	46908	1	Standard
	Cl	**37**		ug/L			8137590	8198719	1	Standard
>	**Sc**	**45**		ug/L			1506324	1534355	1	Standard
	V	**51**	**36.413**	ug/L	0.160	0	7630	1164887	2	Standard
	V-1	**51**	**36.704**	ug/L	0.081	0	137	1163879	1	Standard
		52		ug/L	0.265	1	22519	518020	2	Standard
	Cr	**53**	**19.262**	ug/L	0.120	0	148	58213	1	Standard
	Mn	**55**	**233.989**	ug/L	4.102	1	1780	9733277	0	Standard
>	**Ge**	**72**		ug/L			97794	88958	0	KED
	Ni	**60**	**22.176**	ug/L	0.456	2	15	32186	1	KED
	Ni	**62**	**22.359**	ug/L	0.366	1	2	5312	2	KED
		63		ug/L	0.373	1	99	94318	1	KED
	Cu	**65**	**22.322**	ug/L	0.553	2	53	47538	2	KED
		66		ug/L	0.730	2	300	19345	1	KED
	Zn	**67**	**30.464**	ug/L	0.252	0	50	3117	0	KED
		75		ug/L	0.111	5	4	652	4	KED
	Se	**78**	**0.545**	ug/L	0.039	7	11	28	4	KED
	Y	**89**		ug/L			893628	1164952	0	Standard
	Kr	**83**		ug/L			62	135	13	Standard
>	**In-1**	**115**		ug/L			27117	23675	1	KED
		111		ug/L	0.002	5	3	17	3	KED
	Cd	**114**	**0.071**	ug/L	0.021	29	3	62	25	KED
>	**In**	**115**		ug/L			1764814	1680428	0	Standard
		107		ug/L	0.003	4	70	1504	4	Standard
	Sb	**121**	**0.003**	ug/L	0.001	38	359	419	7	Standard
	Sb	**123**	**0.002**	ug/L	0.001	48	300	326	5	Standard
	Ba	**135**	**26.714**	ug/L	0.399	1	33	176071	0	Standard
	Ba	**137**	**27.194**	ug/L	0.281	1	55	300392	0	Standard
>	**Tb**	**159**		ug/L			2798401	2946314	0	Standard
	Tl	**205**	**0.030**	ug/L	0.000	0	80	2929	1	Standard
	Pb	**208**	**2.926**	ug/L	0.042	1	353	373077	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:08:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1103866	1	Standard
	Be	**9**	**0.227**	ug/L	0.003	1	13	1267	0	Standard
	C	**13**		ug/L			30879	46881	0	Standard
	Cl	**37**		ug/L			8137590	8106864	1	Standard
>	**Sc**	**45**		ug/L			1506324	1570241	1	Standard
	V	**51**	**31.071**	ug/L	0.560	1	7630	1018248	1	Standard
	V-1	**51**	**31.329**	ug/L	0.506	1	137	1016561	0	Standard
		52		ug/L	0.175	1	22519	438270	0	Standard
	Cr	**53**	**15.828**	ug/L	0.044	0	148	48985	1	Standard
	Mn	**55**	**178.388**	ug/L	2.458	1	1780	7595174	0	Standard
>	**Ge**	**72**		ug/L			97794	88682	0	KED
	Ni	**60**	**13.951**	ug/L	0.116	0	15	20192	1	KED
	Ni	**62**	**14.311**	ug/L	0.452	3	2	3389	2	KED
		63		ug/L	0.235	0	99	110873	1	KED
	Cu	**65**	**26.603**	ug/L	0.187	0	53	56472	0	KED
		66		ug/L	0.279	0	300	33637	1	KED
	Zn	**67**	**53.002**	ug/L	1.482	2	50	5374	3	KED
		75		ug/L	0.096	1	4	1493	1	KED
	Se	**78**	**0.741**	ug/L	0.143	19	11	34	13	KED
	Y	**89**		ug/L			893628	1203716	1	Standard
	Kr	**83**		ug/L			62	158	11	Standard
>	**In-1**	**115**		ug/L			27117	23663	1	KED
		111		ug/L	0.030	18	3	54	17	KED
	Cd	**114**	**0.132**	ug/L	0.011	8	3	114	8	KED
>	**In**	**115**		ug/L			1764814	1673758	0	Standard
		107		ug/L	0.000	0	70	2957	0	Standard
	Sb	**121**	**0.003**	ug/L	0.002	55	359	412	9	Standard
	Sb	**123**	**-0.001**	ug/L	0.001	98	300	268	6	Standard
	Ba	**135**	**27.354**	ug/L	0.379	1	33	179578	1	Standard
	Ba	**137**	**27.798**	ug/L	0.259	0	55	305849	0	Standard
>	**Tb**	**159**		ug/L			2798401	2950539	1	Standard
	Tl	**205**	**0.048**	ug/L	0.001	1	80	4661	2	Standard
	Pb	**208**	**9.248**	ug/L	0.045	0	353	1180034	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:13:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1097487	2	Standard
	Be	**9**	**0.185**	ug/L	0.016	8	13	1029	8	Standard
	C	**13**		ug/L			30879	47507	0	Standard
	Cl	**37**		ug/L			8137590	8039843	1	Standard
>	**Sc**	**45**		ug/L			1506324	1535225	0	Standard
	V	**51**	**24.903**	ug/L	0.388	1	7630	799551	1	Standard
	V-1	**51**	**25.062**	ug/L	0.377	1	137	795168	1	Standard
		52		ug/L	0.071	0	22519	340934	0	Standard
	Cr	**53**	**12.258**	ug/L	0.107	0	148	37124	0	Standard
	Mn	**55**	**142.923**	ug/L	1.835	1	1780	5950232	0	Standard
>	**Ge**	**72**		ug/L			97794	88886	0	KED
	Ni	**60**	**10.708**	ug/L	0.365	3	15	15534	2	KED
	Ni	**62**	**10.975**	ug/L	0.437	3	2	2605	3	KED
		63		ug/L	0.442	1	99	109771	1	KED
	Cu	**65**	**25.704**	ug/L	0.240	0	53	54692	1	KED
		66		ug/L	1.039	2	300	31827	1	KED
	Zn	**67**	**49.415**	ug/L	1.449	2	50	5025	3	KED
		75		ug/L	0.147	2	4	2004	1	KED
	Se	**78**	**0.499**	ug/L	0.097	19	11	26	11	KED
	Y	**89**		ug/L			893628	1162891	1	Standard
	Kr	**83**		ug/L			62	89	13	Standard
>	**In-1**	**115**		ug/L			27117	23761	1	KED
		111		ug/L	0.032	17	3	64	17	KED
	Cd	**114**	**0.158**	ug/L	0.021	13	3	136	12	KED
>	**In**	**115**		ug/L			1764814	1673927	0	Standard
		107		ug/L	0.006	4	70	2905	5	Standard
	Sb	**121**	**0.004**	ug/L	0.001	31	359	428	6	Standard
	Sb	**123**	**0.005**	ug/L	0.002	32	300	368	6	Standard
	Ba	**135**	**27.701**	ug/L	0.618	2	33	181856	1	Standard
	Ba	**137**	**27.794**	ug/L	0.408	1	55	305821	0	Standard
>	**Tb**	**159**		ug/L			2798401	2936486	0	Standard
	Tl	**205**	**0.046**	ug/L	0.002	3	80	4391	3	Standard
	Pb	**208**	**9.118**	ug/L	0.090	0	353	1157859	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:18:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1145837	2	Standard
	Be	**9**	**0.145**	ug/L	0.017	12	13	844	13	Standard
	C	**13**		ug/L			30879	40914	0	Standard
	Cl	**37**		ug/L			8137590	8245844	1	Standard
>	**Sc**	**45**		ug/L			1506324	1541480	0	Standard
	V	**51**	**31.918**	ug/L	0.742	2	7630	1026666	1	Standard
	V-1	**51**	**32.165**	ug/L	0.748	2	137	1024596	1	Standard
		52		ug/L	0.333	1	22519	533081	1	Standard
	Cr	**53**	**19.623**	ug/L	0.325	1	148	59576	1	Standard
	Mn	**55**	**248.482**	ug/L	2.928	1	1780	10385575	0	Standard
>	**Ge**	**72**		ug/L			97794	89420	1	KED
	Ni	**60**	**17.829**	ug/L	0.258	1	15	26014	1	KED
	Ni	**62**	**18.083**	ug/L	0.311	1	2	4318	0	KED
		63		ug/L	0.180	1	99	52617	0	KED
	Cu	**65**	**12.298**	ug/L	0.179	1	53	26350	2	KED
		66		ug/L	0.248	0	300	21228	1	KED
	Zn	**67**	**32.196**	ug/L	0.968	3	50	3308	2	KED
		75		ug/L	0.020	0	4	678	0	KED
	Se	**78**	**0.426**	ug/L	0.017	3	11	24	3	KED
	Y	**89**		ug/L			893628	1134692	1	Standard
	Kr	**83**		ug/L			62	120	12	Standard
>	**In-1**	**115**		ug/L			27117	24075	0	KED
		111		ug/L	0.002	5	3	13	4	KED
	Cd	**114**	**0.036**	ug/L	0.009	26	3	33	23	KED
>	**In**	**115**		ug/L			1764814	1717029	0	Standard
		107		ug/L	0.002	4	70	1306	3	Standard
	Sb	**121**	**-0.002**	ug/L	0.000	18	359	297	3	Standard
	Sb	**123**	**-0.004**	ug/L	0.000	3	300	226	1	Standard
	Ba	**135**	**18.096**	ug/L	0.109	0	33	121886	1	Standard
	Ba	**137**	**18.199**	ug/L	0.041	0	55	205434	0	Standard
>	**Tb**	**159**		ug/L			2798401	2949380	0	Standard
	Tl	**205**	**0.026**	ug/L	0.001	2	80	2587	2	Standard
	Pb	**208**	**2.253**	ug/L	0.015	0	353	287685	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:24:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1115272	1	Standard
		9		ug/L	0.007	3	13	1025	5	Standard
	C	**13**		ug/L			30879	62919	0	Standard
	Cl	**37**		ug/L			8137590	7983284	0	Standard
>	**Sc**	**45**		ug/L			1506324	1577861	0	Standard
	V	**51**	**29.423**	ug/L	0.369	1	7630	969424	0	Standard
	V-1	**51**	**29.581**	ug/L	0.369	1	137	964579	0	Standard
		52		ug/L	0.046	0	22519	270912	0	Standard
	Cr	**53**	**9.325**	ug/L	0.047	0	148	29063	0	Standard
	Mn	**55**	**98.619**	ug/L	0.091	0	1780	4220447	0	Standard
>	**Ge**	**72**		ug/L			97794	88275	1	KED
		60		ug/L	0.153	1	15	11408	0	KED
	Ni	**62**	**7.800**	ug/L	0.161	2	2	1840	3	KED
		63		ug/L	0.176	1	99	69354	0	KED
	Cu	**65**	**16.517**	ug/L	0.342	2	53	34914	1	KED
		66		ug/L	0.180	0	300	12678	1	KED
	Zn	**67**	**20.547**	ug/L	0.366	1	50	2101	2	KED
		75		ug/L	0.031	0	4	1289	0	KED
		78		ug/L	0.151	26	11	28	16	KED
	Y	**89**		ug/L			893628	1174740	1	Standard
	Kr	**83**		ug/L			62	93	10	Standard
>	**In-1**	**115**		ug/L			27117	24364	1	KED
		111		ug/L	0.005	23	3	9	15	KED
	Cd	**114**	**0.025**	ug/L	0.007	29	3	24	24	KED
>	**In**	**115**		ug/L			1764814	1695222	1	Standard
		107		ug/L	0.003	5	70	1516	6	Standard
		121		ug/L	0.001	43	359	275	12	Standard
	Sb	**123**	**-0.005**	ug/L	0.001	28	300	202	10	Standard
	Ba	**135**	**20.501**	ug/L	0.394	1	33	136304	0	Standard
	Ba	**137**	**20.606**	ug/L	0.292	1	55	229616	0	Standard
>	**Tb**	**159**		ug/L			2798401	2930968	0	Standard
		205		ug/L	0.001	1	80	3317	2	Standard
		208		ug/L	0.008	0	353	282242	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:29:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1134837	3	Standard
		9		ug/L	0.006	2	13	1233	2	Standard
	C	**13**		ug/L			30879	64349	0	Standard
	Cl	**37**		ug/L			8137590	8015494	1	Standard
>	**Sc**	**45**		ug/L			1506324	1590845	1	Standard
	V	**51**	**34.235**	ug/L	0.895	2	7630	1135697	1	Standard
	V-1	**51**	**34.456**	ug/L	0.926	2	137	1132497	1	Standard
		52		ug/L	0.237	2	22519	349706	1	Standard
	Cr	**53**	**12.268**	ug/L	0.283	2	148	38493	0	Standard
	Mn	**55**	**110.279**	ug/L	2.844	2	1780	4756925	1	Standard
>	**Ge**	**72**		ug/L			97794	89012	0	KED
		60		ug/L	0.021	0	15	14116	0	KED
	Ni	**62**	**9.720**	ug/L	0.202	2	2	2311	2	KED
		63		ug/L	0.184	0	99	122677	0	KED
	Cu	**65**	**29.167**	ug/L	0.470	1	53	62138	1	KED
		66		ug/L	0.224	0	300	15873	1	KED
	Zn	**67**	**25.605**	ug/L	0.918	3	50	2629	3	KED
		75		ug/L	0.051	0	4	1824	0	KED
		78		ug/L	0.073	9	11	35	7	KED
	Y	**89**		ug/L			893628	1227218	1	Standard
	Kr	**83**		ug/L			62	94	6	Standard
>	**In-1**	**115**		ug/L			27117	23852	1	KED
		111		ug/L	0.022	24	3	32	21	KED
	Cd	**114**	**0.095**	ug/L	0.024	25	3	83	23	KED
>	**In**	**115**		ug/L			1764814	1695883	0	Standard
		107		ug/L	0.005	5	70	2256	5	Standard
		121	-	ug/L	0.001	24	359	280	6	Standard
	Sb	**123**	**-0.006**	ug/L	0.001	9	300	173	7	Standard
	Ba	**135**	**28.418**	ug/L	0.311	1	33	189021	0	Standard
	Ba	**137**	**28.847**	ug/L	0.418	1	55	321575	0	Standard
>	**Tb**	**159**		ug/L			2798401	2933815	0	Standard
		205		ug/L	0.003	4	80	5750	3	Standard
		208		ug/L	0.043	0	353	658900	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:34:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1107380	1	Standard
		9		ug/L	0.015	6	13	1372	7	Standard
	C	**13**		ug/L			30879	62149	0	Standard
	Cl	**37**		ug/L			8137590	8068820	1	Standard
>	**Sc**	**45**		ug/L			1506324	1558883	3	Standard
	V	**51**	**42.981**	ug/L	0.642	1	7630	1395156	2	Standard
	V-1	**51**	**43.151**	ug/L	0.653	1	137	1389766	2	Standard
		52		ug/L	0.156	1	22519	268572	2	Standard
	Cr	**53**	**9.301**	ug/L	0.185	1	148	28625	1	Standard
	Mn	**55**	**78.073**	ug/L	2.118	2	1780	3299349	1	Standard
>	**Ge**	**72**		ug/L			97794	88050	0	KED
		60		ug/L	0.211	0	15	35245	1	KED
	Ni	**62**	**24.713**	ug/L	0.754	3	2	5811	3	KED
		63		ug/L	0.589	2	99	94705	1	KED
	Cu	**65**	**22.557**	ug/L	0.394	1	53	47545	1	KED
		66		ug/L	1.779	1	300	63272	0	KED
	Zn	**67**	**98.504**	ug/L	2.645	2	50	9876	1	KED
		75		ug/L	0.263	2	4	2616	3	KED
		78		ug/L	0.055	6	11	36	5	KED
	Y	**89**		ug/L			893628	1374967	1	Standard
	Kr	**83**		ug/L			62	108	10	Standard
>	**In-1**	**115**		ug/L			27117	23922	1	KED
		111		ug/L	0.037	12	3	100	11	KED
	Cd	**114**	**0.304**	ug/L	0.032	10	3	261	9	KED
>	**In**	**115**		ug/L			1764814	1690841	1	Standard
		107		ug/L	0.002	3	70	1652	4	Standard
		121		ug/L	0.001	40	359	266	10	Standard
	Sb	**123**	**-0.004**	ug/L	0.001	20	300	215	8	Standard
	Ba	**135**	**18.834**	ug/L	0.049	0	33	124916	1	Standard
	Ba	**137**	**19.007**	ug/L	0.103	0	55	211281	1	Standard
>	**Tb**	**159**		ug/L			2798401	2924853	1	Standard
		205		ug/L	0.002	1	80	13853	2	Standard
		208		ug/L	0.005	0	353	255633	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:41:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1118731	1	Standard
	Be	**9**	**-0.001**	ug/L	0.001	42	13	6	45	Standard
	C	**13**		ug/L			30879	29872	1	Standard
	Cl	**37**		ug/L			8137590	7821587	0	Standard
>	**Sc**	**45**		ug/L			1506324	1420944	1	Standard
	V	**51**	**-0.002**	ug/L	0.005	244	7630	7133	0	Standard
	V-1	**51**	**0.000**	ug/L	0.001	480	137	135	21	Standard
	Cr	**52**	**-0.008**	ug/L	0.014	172	22519	21036	0	Standard
	Cr	**53**	**-0.000**	ug/L	0.002	616	148	139	5	Standard
	Mn	**55**	**-0.019**	ug/L	0.001	4	1780	930	3	Standard
>	**Ge**	**72**		ug/L			97794	88793	1	KED
	Ni	**60**	**0.001**	ug/L	0.001	246	15	15	12	KED
	Ni	**62**	**0.030**	ug/L	0.024	79	2	9	60	KED
	Cu	**63**	**0.006**	ug/L	0.004	62	99	116	12	KED
	Cu	**65**	**0.001**	ug/L	0.005	621	53	50	21	KED
	Zn	**66**	**-0.330**	ug/L	0.003	1	300	71	4	KED
	Zn	**67**	**-0.339**	ug/L	0.020	5	50	11	16	KED
	As	**75**	**0.000**	ug/L	0.002	753	4	3	12	KED
	Se	**78**	**0.003**	ug/L	0.044	1276	11	10	15	KED
	Y	**89**		ug/L			893628	873414	0	Standard
	Kr	**83**		ug/L			62	55	3	Standard
>	**In-1**	**115**		ug/L			27117	24291	1	KED
	Cd	**111**	**0.003**	ug/L	0.003	102	3	3	25	KED
	Cd	**114**	**-0.002**	ug/L	0.002	111	3	1	114	KED
>	**In**	**115**		ug/L			1764814	1672405	0	Standard
	Ag	**107**	**0.000**	ug/L	0.000	174	70	73	15	Standard
	Sb	**121**	**-0.008**	ug/L	0.001	10	359	138	13	Standard
	Sb	**123**	**-0.010**	ug/L	0.001	6	300	99	11	Standard
	Ba	**135**	**0.002**	ug/L	0.002	89	33	47	30	Standard
	Ba	**137**	**0.001**	ug/L	0.000	17	55	66	2	Standard
>	**Tb**	**159**		ug/L			2798401	2718275	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	64	80	59	21	Standard
	Pb	**208**	**0.006**	ug/L	0.000	3	353	1087	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:46:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1113087	2	Standard
	Be	**9**	**48.388**	ug/L	1.034	2	13	269766	0	Standard
	C	**13**		ug/L			30879	29443	1	Standard
	Cl	**37**		ug/L			8137590	8524920	1	Standard
>	**Sc**	**45**		ug/L			1506324	1414332	1	Standard
	V	**51**	**46.729**	ug/L	0.978	2	7630	1375692	1	Standard
	V-1	**51**	**47.440**	ug/L	0.985	2	137	1386315	1	Standard
	Cr	**52**	**47.392**	ug/L	0.813	1	22519	1195115	1	Standard
	Cr	**53**	**49.786**	ug/L	1.055	2	148	138445	0	Standard
	Mn	**55**	**49.283**	ug/L	0.558	1	1780	1891081	0	Standard
>	**Ge**	**72**		ug/L			97794	87380	1	KED
	Ni	**60**	**50.836**	ug/L	1.128	2	15	72446	0	KED
	Ni	**62**	**50.430**	ug/L	0.634	1	2	11764	1	KED
	Cu	**63**	**51.653**	ug/L	1.537	2	99	214056	1	KED
	Cu	**65**	**51.382**	ug/L	0.694	1	53	107416	0	KED
	Zn	**66**	**51.544**	ug/L	0.648	1	300	31302	0	KED
	Zn	**67**	**51.099**	ug/L	1.333	2	50	5106	2	KED
	As	**75**	**49.914**	ug/L	0.389	0	4	14452	0	KED
	Se	**78**	**49.564**	ug/L	1.055	2	11	1606	1	KED
	Y	**89**		ug/L			893628	858126	1	Standard
	Kr	**83**		ug/L			62	62	21	Standard
>	**In-1**	**115**		ug/L			27117	23345	0	KED
	Cd	**111**	**51.965**	ug/L	0.961	1	3	16683	1	KED
	Cd	**114**	**52.526**	ug/L	0.333	0	3	43581	0	KED
>	**In**	**115**		ug/L			1764814	1650929	0	Standard
	Ag	**107**	**51.491**	ug/L	1.118	2	70	1181054	1	Standard
	Sb	**121**	**48.083**	ug/L	0.804	1	359	1173453	1	Standard
	Sb	**123**	**50.155**	ug/L	0.174	0	300	886405	0	Standard
	Ba	**135**	**46.648**	ug/L	0.343	0	33	302044	0	Standard
	Ba	**137**	**46.808**	ug/L	0.509	1	55	507941	0	Standard
>	**Tb**	**159**		ug/L			2798401	2811152	1	Standard
	Tl	**205**	**51.525**	ug/L	0.195	0	80	4639377	0	Standard
	Pb	**208**	**49.302**	ug/L	0.588	1	353	5991722	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:53:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1140311	2	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	365	13	14	27	Standard
	C	**13**		ug/L			30879	30142	0	Standard
	Cl	**37**		ug/L			8137590	8208784	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1431977	1	Standard
⌈	**V**	**51**	**0.004**	ug/L	0.005	128	7630	7378	1	Standard
⌈	**V-1**	**51**	**-0.001**	ug/L	0.000	29	137	112	6	Standard
⌈	**Cr**	**52**	**0.016**	ug/L	0.017	107	22519	21811	1	Standard
⌈	**Cr**	**53**	**-0.000**	ug/L	0.001	38755	148	141	4	Standard
⌊	**Mn**	**55**	**-0.012**	ug/L	0.001	9	1780	1211	3	Standard
⌈>	**Ge**	**72**		ug/L			97794	89407	0	KED
⌈	**Ni**	**60**	**0.003**	ug/L	0.004	146	15	18	31	KED
⌈	**Ni**	**62**	**0.012**	ug/L	0.024	211	2	5	114	KED
⌈	**Cu**	**63**	**0.004**	ug/L	0.004	104	99	107	15	KED
⌈	**Cu**	**65**	**0.004**	ug/L	0.004	101	53	57	15	KED
⌈	**Zn**	**66**	**-0.110**	ug/L	0.044	40	300	206	12	KED
⌈	**Zn**	**67**	**-0.164**	ug/L	0.115	69	50	29	39	KED
⌈	**As**	**75**	**0.005**	ug/L	0.002	33	4	5	9	KED
⌊	**Se**	**78**	**0.115**	ug/L	0.034	29	11	13	7	KED
	Y	**89**		ug/L			893628	856145	3	Standard
	Kr	**83**		ug/L			62	55	13	Standard
⌈>	**In-1**	**115**		ug/L			27117	24371	1	KED
⌈	**Cd**	**111**	**-0.004**	ug/L	0.006	158	3	1	124	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.001	36	3	0	209	KED
⌈>	**In**	**115**		ug/L			1764814	1676823	1	Standard
⌈	**Ag**	**107**	**0.002**	ug/L	0.001	36	70	120	17	Standard
⌈	**Sb**	**121**	**0.028**	ug/L	0.002	6	359	1045	3	Standard
⌈	**Sb**	**123**	**0.030**	ug/L	0.001	2	300	819	3	Standard
⌈	**Ba**	**135**	**0.019**	ug/L	0.001	6	33	157	4	Standard
⌊	**Ba**	**137**	**0.019**	ug/L	0.002	11	55	263	9	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2738057	1	Standard
⌈	**Tl**	**205**	**0.001**	ug/L	0.000	27	80	185	14	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	31	353	632	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Wednesday, June 01, 2022 23:58:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1133960	1	Standard
⌊	**Be**	**9**	**0.167**	ug/L	0.009	5	13	963	6	Standard
	C	**13**		ug/L			30879	44268	0	Standard
	Cl	**37**		ug/L			8137590	8089789	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1511992	0	Standard
⌈	**V**	**51**	**29.942**	ug/L	0.101	0	7630	945242	0	Standard
⌈	**V-1**	**51**	**30.186**	ug/L	0.074	0	137	943239	0	Standard
⌈	[redacted]	**52**	[redacted]	ug/L	0.146	1	22519	387345	1	Standard
⌈	**Cr**	**53**	**14.468**	ug/L	0.052	0	148	43129	0	Standard
⌊	**Mn**	**55**	**233.797**	ug/L	2.700	1	1780	9585539	1	Standard
⌈>	**Ge**	**72**		ug/L			97794	88808	0	KED
⌈	**Ni**	**60**	**14.475**	ug/L	0.150	1	15	20978	0	KED
⌈	**Ni**	**62**	**14.825**	ug/L	0.223	1	2	3516	1	KED
⌈	[redacted]	**63**	[redacted]	ug/L	0.230	1	99	62244	1	KED
⌈	**Cu**	**65**	**14.879**	ug/L	0.110	0	53	31650	0	KED
⌈	[redacted]	**66**	[redacted]	ug/L	0.233	0	300	19370	0	KED
⌈	**Zn**	**67**	**30.316**	ug/L	0.362	1	50	3097	0	KED
⌈	[redacted]	**75**	[redacted]	ug/L	0.020	0	4	914	1	KED
⌊	**Se**	**78**	**0.554**	ug/L	0.099	17	11	28	10	KED
	Y	**89**		ug/L			893628	1138342	1	Standard
	Kr	**83**		ug/L			62	125	24	Standard
⌈>	**In-1**	**115**		ug/L			27117	24106	0	KED
⌈	[redacted]	**111**	[redacted]	ug/L	0.001	3	3	15	3	KED
⌊	**Cd**	**114**	**0.035**	ug/L	0.005	15	3	33	14	KED
⌈>	**In**	**115**		ug/L			1764814	1694091	2	Standard
⌈	[redacted]	**107**	[redacted]	ug/L	0.001	2	70	1168	2	Standard
⌈	**Sb**	**121**	**0.011**	ug/L	0.001	10	359	613	3	Standard
⌈	**Sb**	**123**	**0.012**	ug/L	0.001	5	300	513	3	Standard
⌈	**Ba**	**135**	**19.832**	ug/L	0.457	2	33	131752	1	Standard
⌊	**Ba**	**137**	**19.903**	ug/L	0.419	2	55	221593	0	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2942299	1	Standard
⌈	**Tl**	**205**	**0.034**	ug/L	0.001	2	80	3333	1	Standard
⌊	**Pb**	**208**	**2.785**	ug/L	0.039	1	353	354552	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:03:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1113872	1	Standard
	Be	**9**	**0.186**	ug/L	0.001	0	13	1053	2	Standard
	C	**13**		ug/L			30879	44765	1	Standard
	Cl	**37**		ug/L			8137590	8137899	0	Standard
>	**Sc**	**45**		ug/L			1506324	1554778	0	Standard
	V	**51**	**27.880**	ug/L	0.252	0	7630	905640	1	Standard
	V-1	**51**	**28.096**	ug/L	0.228	0	137	902829	1	Standard
	[redacted]	**52**	[redacted]	ug/L	0.106	0	22519	376079	1	Standard
	Cr	**53**	**13.567**	ug/L	0.051	0	148	41597	0	Standard
	Mn	**55**	**230.362**	ug/L	1.619	0	1780	9711961	1	Standard
>	**Ge**	**72**		ug/L			97794	88659	1	KED
	Ni	**60**	**15.036**	ug/L	0.248	1	15	21753	1	KED
	Ni	**62**	**15.221**	ug/L	0.474	3	2	3603	2	KED
	[redacted]	**63**	[redacted]	ug/L	0.108	0	99	75533	0	KED
	Cu	**65**	**18.035**	ug/L	0.134	0	53	38287	0	KED
	[redacted]	**66**	[redacted]	ug/L	0.887	2	300	24160	1	KED
	Zn	**67**	**37.847**	ug/L	1.222	3	50	3849	3	KED
	[redacted]	**75**	[redacted]	ug/L	0.038	0	4	1256	1	KED
	Se	**78**	**0.608**	ug/L	0.045	7	11	30	5	KED
	Y	**89**		ug/L			893628	1169408	1	Standard
	Kr	**83**		ug/L			62	132	11	Standard
>	**In-1**	**115**		ug/L			27117	23967	0	KED
	[redacted]	**111**	[redacted]	ug/L	0.009	16	3	20	13	KED
	Cd	**114**	**0.068**	ug/L	0.010	15	3	61	14	KED
>	**In**	**115**		ug/L			1764814	1675279	1	Standard
	[redacted]	**107**	[redacted]	ug/L	0.004	5	70	1672	4	Standard
	Sb	**121**	**0.006**	ug/L	0.001	8	359	495	1	Standard
	Sb	**123**	**0.005**	ug/L	0.002	44	300	377	10	Standard
	Ba	**135**	**27.729**	ug/L	0.308	1	33	182193	0	Standard
	Ba	**137**	**28.117**	ug/L	0.207	0	55	309639	0	Standard
>	**Tb**	**159**		ug/L			2798401	2929380	0	Standard
	Tl	**205**	**0.047**	ug/L	0.001	2	80	4522	2	Standard
	Pb	**208**	**5.026**	ug/L	0.007	0	353	636893	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:08:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1112737	4	Standard
	Be	**9**	**0.174**	ug/L	0.009	5	13	980	2	Standard
	C	**13**		ug/L			30879	41477	0	Standard
	Cl	**37**		ug/L			8137590	8180850	1	Standard
>	**Sc**	**45**		ug/L			1506324	1525408	3	Standard
	V	**51**	**29.861**	ug/L	0.762	2	7630	950608	1	Standard
	V-1	**51**	**30.079**	ug/L	0.735	2	137	947798	1	Standard
		52		ug/L	0.428	3	22519	402718	1	Standard
	Cr	**53**	**14.841**	ug/L	0.337	2	148	44608	0	Standard
	Mn	**55**	**291.000**	ug/L	7.263	2	1780	12030027	0	Standard
>	**Ge**	**72**		ug/L			97794	88779	0	KED
	Ni	**60**	**19.931**	ug/L	0.305	1	15	28872	1	KED
	Ni	**62**	**19.894**	ug/L	0.206	1	2	4716	1	KED
		63		ug/L	0.031	0	99	65398	0	KED
	Cu	**65**	**15.594**	ug/L	0.059	0	53	33159	0	KED
		66		ug/L	0.500	1	300	19088	1	KED
	Zn	**67**	**29.623**	ug/L	0.715	2	50	3026	2	KED
		75		ug/L	0.113	3	4	897	3	KED
	Se	**78**	**0.493**	ug/L	0.097	19	11	26	11	KED
	Y	**89**		ug/L			893628	1121756	4	Standard
	Kr	**83**		ug/L			62	120	30	Standard
>	**In-1**	**115**		ug/L			27117	23941	1	KED
		111		ug/L	0.016	53	3	12	40	KED
	Cd	**114**	**0.034**	ug/L	0.012	33	3	32	30	KED
>	**In**	**115**		ug/L			1764814	1651185	3	Standard
		107		ug/L	0.001	3	70	1017	3	Standard
	Sb	**121**	**-0.001**	ug/L	0.001	69	359	313	3	Standard
	Sb	**123**	**-0.003**	ug/L	0.001	54	300	234	11	Standard
	Ba	**135**	**19.320**	ug/L	0.470	2	33	125056	1	Standard
	Ba	**137**	**19.604**	ug/L	0.765	3	55	212586	1	Standard
>	**Tb**	**159**		ug/L			2798401	2887356	4	Standard
	Tl	**205**	**0.039**	ug/L	0.001	3	80	3655	1	Standard
	Pb	**208**	**2.064**	ug/L	0.079	3	353	257708	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:13:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1136809	2	Standard
	Be	**9**	**0.169**	ug/L	0.003	1	13	976	0	Standard
	C	**13**		ug/L			30879	38695	0	Standard
	Cl	**37**		ug/L			8137590	8136268	0	Standard
>	**Sc**	**45**		ug/L			1506324	1535005	0	Standard
	V	**51**	**27.587**	ug/L	0.375	1	7630	884750	1	Standard
	V-1	**51**	**27.819**	ug/L	0.347	1	137	882514	1	Standard
		52		ug/L	0.290	2	22519	371632	1	Standard
	Cr	**53**	**13.638**	ug/L	0.251	1	148	41279	1	Standard
	Mn	**55**	**258.473**	ug/L	4.613	1	1780	10757553	1	Standard
>	**Ge**	**72**		ug/L			97794	88031	1	KED
	Ni	**60**	**17.059**	ug/L	0.222	1	15	24505	0	KED
	Ni	**62**	**17.042**	ug/L	0.460	2	2	4006	1	KED
		63		ug/L	0.203	1	99	52684	0	KED
	Cu	**65**	**12.489**	ug/L	0.123	0	53	26341	0	KED
		66		ug/L	0.269	0	300	17046	1	KED
	Zn	**67**	**26.568**	ug/L	1.101	4	50	2696	3	KED
		75		ug/L	0.021	0	4	721	1	KED
	Se	**78**	**0.386**	ug/L	0.130	33	11	22	17	KED
	Y	**89**		ug/L			893628	1143335	1	Standard
	Kr	**83**		ug/L			62	138	15	Standard
>	**In-1**	**115**		ug/L			27117	23543	0	KED
		111		ug/L	0.006	24	3	10	18	KED
	Cd	**114**	**0.044**	ug/L	0.014	31	3	40	28	KED
>	**In**	**115**		ug/L			1764814	1675525	0	Standard
		107		ug/L	0.003	6	70	1132	6	Standard
	Sb	**121**	**0.001**	ug/L	0.002	167	359	372	13	Standard
	Sb	**123**	**-0.000**	ug/L	0.001	278	300	277	6	Standard
	Ba	**135**	**18.258**	ug/L	0.186	1	33	119998	0	Standard
	Ba	**137**	**18.377**	ug/L	0.237	1	55	202422	0	Standard
>	**Tb**	**159**		ug/L			2798401	2930900	0	Standard
	Tl	**205**	**0.043**	ug/L	0.000	0	80	4077	1	Standard
	Pb	**208**	**1.720**	ug/L	0.021	1	353	218331	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:18:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1125813	2	Standard
	Be	**9**	**0.164**	ug/L	0.012	7	13	935	5	Standard
	C	**13**		ug/L			30879	38120	1	Standard
	Cl	**37**		ug/L			8137590	8193267	0	Standard
>	**Sc**	**45**		ug/L			1506324	1518226	2	Standard
	V	**51**	**24.705**	ug/L	0.176	0	7630	784432	2	Standard
	V-1	**51**	**24.941**	ug/L	0.209	0	137	782567	2	Standard
		52		ug/L	0.160	1	22519	375081	1	Standard
	Cr	**53**	**13.962**	ug/L	0.204	1	148	41788	1	Standard
	Mn	**55**	**228.713**	ug/L	3.930	1	1780	9413133	0	Standard
>	**Ge**	**72**		ug/L			97794	88064	1	KED
	Ni	**60**	**16.568**	ug/L	0.394	2	15	23804	1	KED
	Ni	**62**	**16.563**	ug/L	0.842	5	2	3893	3	KED
		63		ug/L	0.190	1	99	50855	0	KED
	Cu	**65**	**12.052**	ug/L	0.185	1	53	25427	0	KED
		66		ug/L	0.439	1	300	15509	2	KED
	Zn	**67**	**24.564**	ug/L	1.070	4	50	2498	5	KED
		75		ug/L	0.042	1	4	674	3	KED
	Se	**78**	**0.431**	ug/L	0.047	11	11	24	8	KED
	Y	**89**		ug/L			893628	1116882	0	Standard
	Kr	**83**		ug/L			62	126	15	Standard
>	**In-1**	**115**		ug/L			27117	23389	0	KED
		111		ug/L	0.014	24	3	20	21	KED
	Cd	**114**	**0.035**	ug/L	0.006	16	3	31	14	KED
>	**In**	**115**		ug/L			1764814	1669354	0	Standard
		107		ug/L	0.002	4	70	979	4	Standard
	Sb	**121**	**-0.002**	ug/L	0.001	34	359	280	6	Standard
	Sb	**123**	**-0.006**	ug/L	0.001	24	300	183	12	Standard
	Ba	**135**	**14.724**	ug/L	0.221	1	33	96415	0	Standard
	Ba	**137**	**14.840**	ug/L	0.212	1	55	162866	0	Standard
>	**Tb**	**159**		ug/L			2798401	2904214	0	Standard
	Tl	**205**	**0.033**	ug/L	0.002	5	80	3181	5	Standard
	Pb	**208**	**1.605**	ug/L	0.018	1	353	201907	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:23:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1086626	3	Standard
	Be	**9**	**25.380**	ug/L	1.017	4	13	138041	0	Standard
	C	**13**		ug/L			30879	35914	1	Standard
	Cl	**37**		ug/L			8137590	8124409	1	Standard
>	**Sc**	**45**		ug/L			1506324	1486918	4	Standard
	V	**51**	**48.164**	ug/L	1.264	2	7630	1489584	1	Standard
	V-1	**51**	**48.723**	ug/L	1.215	2	137	1496097	2	Standard
	[redacted]	**52**	[redacted]	ug/L	1.039	2	22519	943793	1	Standard
	Cr	**53**	**37.194**	ug/L	0.870	2	148	108731	2	Standard
	Mn	**55**	**274.616**	ug/L	6.858	2	1780	11064156	2	Standard
>	**Ge**	**72**		ug/L			97794	88538	1	KED
	Ni	**60**	**44.701**	ug/L	0.776	1	15	64554	0	KED
	Ni	**62**	**44.593**	ug/L	0.644	1	2	10541	1	KED
	[redacted]	**63**	[redacted]	ug/L	0.688	1	99	168111	0	KED
	Cu	**65**	**39.863**	ug/L	0.932	2	53	84443	1	KED
	[redacted]	**66**	[redacted]	ug/L	1.441	1	300	66479	0	KED
	Zn	**67**	**102.940**	ug/L	0.578	0	50	10377	1	KED
	[redacted]	**75**	[redacted]	ug/L	0.082	0	4	7943	1	KED
	Se	**78**	**75.759**	ug/L	1.711	2	11	2483	1	KED
	Y	**89**		ug/L			893628	1130172	3	Standard
	Kr	**83**		ug/L			62	127	11	Standard
>	**In-1**	**115**		ug/L			27117	23653	1	KED
	[redacted]	**111**	[redacted]	ug/L	0.314	1	3	8587	0	KED
	Cd	**114**	**26.480**	ug/L	0.215	0	3	22260	0	KED
>	**In**	**115**		ug/L			1764814	1603289	6	Standard
	[redacted]	**107**	[redacted]	ug/L	1.680	6	70	585698	0	Standard
	Sb	**121**	**-0.002**	ug/L	0.001	63	359	270	10	Standard
	Sb	**123**	**-0.002**	ug/L	0.001	44	300	230	3	Standard
	Ba	**135**	**42.583**	ug/L	2.712	6	33	267077	0	Standard
	Ba	**137**	**42.633**	ug/L	2.804	6	55	448097	0	Standard
>	**Tb**	**159**		ug/L			2798401	2840224	3	Standard
	Tl	**205**	**26.555**	ug/L	0.678	2	80	2414314	1	Standard
	Pb	**208**	**25.267**	ug/L	0.839	3	353	3100269	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:28:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1117883	3	Standard
⌊	**Be**	**9**	**24.461**	ug/L	0.816	3	13	136912	1	Standard
	C	**13**		ug/L			30879	35372	0	Standard
	Cl	**37**		ug/L			8137590	8079738	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1509941	0	Standard
⌈	**V**	**51**	**48.033**	ug/L	0.264	0	7630	1509681	0	Standard
⌈	**V-1**	**51**	**48.578**	ug/L	0.286	0	137	1515829	0	Standard
⌈		**52**		ug/L	0.108	0	22519	1018787	0	Standard
⌈	**Cr**	**53**	**39.419**	ug/L	0.392	0	148	117089	1	Standard
⌊	**Mn**	**55**	**241.232**	ug/L	2.331	0	1780	9876716	0	Standard
⌈>	**Ge**	**72**		ug/L			97794	88540	0	KED
⌈	**Ni**	**60**	**46.248**	ug/L	0.251	0	15	66796	0	KED
⌈	**Ni**	**62**	**46.399**	ug/L	0.307	0	2	10968	0	KED
⌈		**63**		ug/L	0.415	1	99	163821	1	KED
⌈	**Cu**	**65**	**38.867**	ug/L	0.320	0	53	82355	1	KED
⌈		**66**		ug/L	0.504	0	300	65187	0	KED
⌈	**Zn**	**67**	**101.462**	ug/L	1.476	1	50	10229	0	KED
⌈		**75**		ug/L	0.202	0	4	7875	0	KED
⌊	**Se**	**78**	**76.492**	ug/L	0.259	0	11	2507	0	KED
	Y	**89**		ug/L			893628	1113204	0	Standard
	Kr	**83**		ug/L			62	138	2	Standard
⌈>	**In-1**	**115**		ug/L			27117	23565	2	KED
⌈		**111**		ug/L	0.517	1	3	8422	0	KED
⌊	**Cd**	**114**	**26.561**	ug/L	0.552	2	3	22240	1	KED
⌈>	**In**	**115**		ug/L			1764814	1656995	0	Standard
⌈		**107**		ug/L	0.400	1	70	581698	1	Standard
⌈	**Sb**	**121**	**-0.005**	ug/L	0.001	14	359	221	8	Standard
⌈	**Sb**	**123**	**-0.005**	ug/L	0.000	9	300	201	3	Standard
⌈	**Ba**	**135**	**52.583**	ug/L	0.775	1	33	341707	1	Standard
⌊	**Ba**	**137**	**53.036**	ug/L	0.803	1	55	577627	1	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2902055	2	Standard
⌈	**Tl**	**205**	**26.360**	ug/L	0.562	2	80	2449768	1	Standard
⌊	**Pb**	**208**	**24.555**	ug/L	0.371	1	353	3080466	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKE0771-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:34:00

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1130812	2	Standard
⌊	**Be**	**9**	**22.806**	ug/L	0.613	2	13	129169	0	Standard
	C	**13**		ug/L			30879	38462	0	Standard
	Cl	**37**		ug/L			8137590	8217160	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1515850	1	Standard
|	**V**	**51**	**49.437**	ug/L	0.351	0	7630	1559770	2	Standard
|	**V-1**	**51**	**49.814**	ug/L	0.288	0	137	1560548	2	Standard
|	**Cr**	**52**	**35.593**	ug/L	0.361	1	22519	967808	1	Standard
|	**Cr**	**53**	**36.756**	ug/L	0.192	0	148	109611	1	Standard
⌊	**Mn**	**55**	**286.406**	ug/L	1.809	0	1780	11771078	1	Standard
⌈>	**Ge**	**72**		ug/L			97794	88775	0	KED
|	**Ni**	**60**	**41.291**	ug/L	0.540	1	15	59795	0	KED
|	**Ni**	**62**	**40.986**	ug/L	0.341	0	2	9715	1	KED
|	**Cu**	**63**	**37.475**	ug/L	0.167	0	99	157848	0	KED
|	**Cu**	**65**	**37.568**	ug/L	0.353	0	53	79812	0	KED
|	**Zn**	**66**	**103.123**	ug/L	0.826	0	300	63359	0	KED
|	**Zn**	**67**	**97.960**	ug/L	1.399	1	50	9903	0	KED
|	**As**	**75**	**26.252**	ug/L	0.265	1	4	7724	0	KED
⌊	**Se**	**78**	**69.839**	ug/L	0.457	0	11	2296	0	KED
	Y	**89**		ug/L			893628	1126742	2	Standard
	Kr	**83**		ug/L			62	121	5	Standard
⌈>	**In-1**	**115**		ug/L			27117	23328	1	KED
|	**Cd**	**111**	**25.157**	ug/L	0.023	0	3	8071	1	KED
⌊	**Cd**	**114**	**25.191**	ug/L	0.292	1	3	20885	0	KED
⌈>	**In**	**115**		ug/L			1764814	1672406	1	Standard
|	**Ag**	**107**	**25.234**	ug/L	0.396	1	70	586309	0	Standard
|	**Sb**	**121**	**-0.003**	ug/L	0.001	31	359	257	11	Standard
|	**Sb**	**123**	**-0.005**	ug/L	0.001	15	300	192	8	Standard
|	**Ba**	**135**	**41.174**	ug/L	0.122	0	33	270084	1	Standard
⌊	**Ba**	**137**	**41.771**	ug/L	0.148	0	55	459199	1	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2908800	0	Standard
|	**Tl**	**205**	**25.150**	ug/L	0.370	1	80	2343071	0	Standard
⌊	**Pb**	**208**	**23.595**	ug/L	0.067	0	353	2967594	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:40:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1131604	1	Standard
	Be	**9**	**11.021**	ug/L	0.278	2	13	62482	1	Standard
	C	**13**		ug/L			30879	33859	0	Standard
	Cl	**37**		ug/L			8137590	8142145	0	Standard
>	**Sc**	**45**		ug/L			1506324	1429961	0	Standard
	V	**51**	**34.149**	ug/L	0.204	0	7630	1018542	1	Standard
	V-1	**51**	**34.635**	ug/L	0.218	0	137	1023546	1	Standard
		52		ug/L	0.252	0	22519	859178	1	Standard
	Cr	**53**	**35.076**	ug/L	0.253	0	148	98687	1	Standard
	Mn	**55**	**81.275**	ug/L	0.651	0	1780	3152365	0	Standard
>	**Ge**	**72**		ug/L			97794	89676	1	KED
	Ni	**60**	**10.698**	ug/L	0.210	1	15	15658	1	KED
	Ni	**62**	**10.926**	ug/L	0.233	2	2	2617	1	KED
		63		ug/L	0.355	0	99	159642	1	KED
	Cu	**65**	**37.425**	ug/L	0.870	2	53	80307	1	KED
		66		ug/L	2.387	2	300	55631	1	KED
	Zn	**67**	**88.343**	ug/L	1.727	1	50	9026	1	KED
		75		ug/L	0.353	1	4	6263	0	KED
	Se	**78**	**20.516**	ug/L	0.541	2	11	688	1	KED
	Y	**89**		ug/L			893628	955854	0	Standard
	Kr	**83**		ug/L			62	68	26	Standard
>	**In-1**	**115**		ug/L			27117	23403	3	KED
		111		ug/L	0.260	2	3	3219	2	KED
	Cd	**114**	**10.044**	ug/L	0.108	1	3	8355	2	KED
>	**In**	**115**		ug/L			1764814	1698330	1	Standard
		107		ug/L	0.072	1	70	138657	2	Standard
	Sb	**121**	**1.528**	ug/L	0.037	2	359	38699	0	Standard
	Sb	**123**	**1.586**	ug/L	0.028	1	300	29109	0	Standard
	Ba	**135**	**66.137**	ug/L	0.929	1	33	440450	0	Standard
	Ba	**137**	**66.192**	ug/L	1.123	1	55	738787	0	Standard
>	**Tb**	**159**		ug/L			2798401	2809187	1	Standard
	Tl	**205**	**18.844**	ug/L	0.099	0	80	1695565	0	Standard
	Pb	**208**	**19.615**	ug/L	0.082	0	353	2382598	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:46:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1102087	3	Standard
	Be	**9**	**0.000**	ug/L	0.001	537	13	13	34	Standard
	C	**13**		ug/L			30879	30931	1	Standard
	Cl	**37**		ug/L			8137590	7831564	1	Standard
>	**Sc**	**45**		ug/L			1506324	1390025	1	Standard
	V	**51**	**0.003**	ug/L	0.003	111	7630	7129	1	Standard
	V-1	**51**	**0.001**	ug/L	0.001	93	137	163	21	Standard
	Cr	**52**	**0.005**	ug/L	0.015	297	22519	20902	1	Standard
	Cr	**53**	**-0.001**	ug/L	0.003	302	148	134	6	Standard
	Mn	**55**	**-0.011**	ug/L	0.004	41	1780	1241	14	Standard
>	**Ge**	**72**		ug/L			97794	88977	1	KED
	Ni	**60**	**-0.005**	ug/L	0.004	85	15	7	75	KED
	Ni	**62**	**-0.004**	ug/L	0.005	106	2	1	86	KED
	Cu	**63**	**0.005**	ug/L	0.004	89	99	111	17	KED
	Cu	**65**	**0.004**	ug/L	0.004	97	53	57	15	KED
	Zn	**66**	**-0.336**	ug/L	0.029	8	300	67	25	KED
	Zn	**67**	**-0.339**	ug/L	0.018	5	50	11	16	KED
	As	**75**	**-0.002**	ug/L	0.003	164	4	3	31	KED
	Se	**78**	**0.055**	ug/L	0.056	101	11	11	14	KED
	Y	**89**		ug/L			893628	845175	1	Standard
	Kr	**83**		ug/L			62	69	10	Standard
>	**In-1**	**115**		ug/L			27117	23986	1	KED
	Cd	**111**	**0.001**	ug/L	0.002	156	3	3	17	KED
	Cd	**114**	**-0.001**	ug/L	0.001	92	3	2	42	KED
>	**In**	**115**		ug/L			1764814	1666471	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	57	70	97	18	Standard
	Sb	**121**	**-0.008**	ug/L	0.000	4	359	143	6	Standard
	Sb	**123**	**-0.010**	ug/L	0.000	4	300	112	6	Standard
	Ba	**135**	**0.005**	ug/L	0.002	52	33	62	25	Standard
	Ba	**137**	**0.005**	ug/L	0.003	53	55	113	28	Standard
>	**Tb**	**159**		ug/L			2798401	2706809	0	Standard
	Tl	**205**	**0.003**	ug/L	0.001	36	80	297	26	Standard
	Pb	**208**	**0.008**	ug/L	0.001	15	353	1282	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:51:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1097241	2	Standard
	Be	**9**	**48.261**	ug/L	0.984	2	13	265219	0	Standard
	C	**13**		ug/L			30879	29611	0	Standard
	Cl	**37**		ug/L			8137590	8458016	1	Standard
>	**Sc**	**45**		ug/L			1506324	1384263	1	Standard
	V	**51**	**47.841**	ug/L	1.115	2	7630	1378450	2	Standard
	V-1	**51**	**48.427**	ug/L	0.964	1	137	1385308	2	Standard
	Cr	**52**	**48.286**	ug/L	0.669	1	22519	1191513	0	Standard
	Cr	**53**	**50.261**	ug/L	0.173	0	148	136834	1	Standard
	Mn	**55**	**49.816**	ug/L	0.308	0	1780	1871120	1	Standard
>	**Ge**	**72**		ug/L			97794	85988	1	KED
	Ni	**60**	**51.511**	ug/L	0.492	0	15	72248	0	KED
	Ni	**62**	**51.724**	ug/L	0.210	0	2	11874	1	KED
	Cu	**63**	**52.452**	ug/L	0.807	1	99	213941	0	KED
	Cu	**65**	**52.298**	ug/L	0.745	1	53	107592	0	KED
	Zn	**66**	**51.377**	ug/L	0.456	0	300	30711	2	KED
	Zn	**67**	**51.377**	ug/L	0.456	0	50	5052	1	KED
	As	**75**	**50.377**	ug/L	0.107	0	4	14355	1	KED
	Se	**78**	**49.124**	ug/L	0.722	1	11	1567	1	KED
	Y	**89**		ug/L			893628	840913	1	Standard
	Kr	**83**		ug/L			62	62	10	Standard
>	**In-1**	**115**		ug/L			27117	22765	1	KED
	Cd	**111**	**51.995**	ug/L	0.694	1	3	16276	1	KED
	Cd	**114**	**52.573**	ug/L	0.526	1	3	42534	1	KED
>	**In**	**115**		ug/L			1764814	1634787	0	Standard
	Ag	**107**	**51.030**	ug/L	1.195	2	70	1158941	1	Standard
	Sb	**121**	**47.478**	ug/L	0.458	0	359	1147339	0	Standard
	Sb	**123**	**49.321**	ug/L	0.800	1	300	863066	0	Standard
	Ba	**135**	**45.920**	ug/L	0.287	0	33	294416	0	Standard
	Ba	**137**	**46.077**	ug/L	0.319	0	55	495122	0	Standard
>	**Tb**	**159**		ug/L			2798401	2742954	1	Standard
	Tl	**205**	**52.605**	ug/L	0.404	0	80	4621589	0	Standard
	Pb	**208**	**49.941**	ug/L	0.736	1	353	5921829	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 00:59:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1126042	2	Standard
	Be	**9**	**0.001**	ug/L	0.001	71	13	20	24	Standard
	C	**13**		ug/L			30879	30128	0	Standard
	Cl	**37**		ug/L			8137590	8175222	0	Standard
>	**Sc**	**45**		ug/L			1506324	1398793	0	Standard
	V	**51**	**0.014**	ug/L	0.003	18	7630	7500	1	Standard
	V-1	**51**	**-0.000**	ug/L	0.001	158	137	117	12	Standard
	Cr	**52**	**0.045**	ug/L	0.006	14	22519	22011	1	Standard
	Cr	**53**	**-0.004**	ug/L	0.004	105	148	126	9	Standard
	Mn	**55**	**-0.011**	ug/L	0.001	10	1780	1251	3	Standard
>	**Ge**	**72**		ug/L			97794	88938	1	KED
	Ni	**60**	**0.001**	ug/L	0.007	1157	15	15	64	KED
	Ni	**62**	**0.012**	ug/L	0.009	77	2	5	43	KED
	Cu	**63**	**0.005**	ug/L	0.004	80	99	111	16	KED
	Cu	**65**	**0.010**	ug/L	0.007	69	53	69	22	KED
	Zn	**66**	**-0.133**	ug/L	0.004	2	300	192	0	KED
	Zn	**67**	**-0.093**	ug/L	0.059	62	50	36	15	KED
	As	**75**	**0.002**	ug/L	0.006	319	4	4	40	KED
	Se	**78**	**0.101**	ug/L	0.019	18	11	13	5	KED
	Y	**89**		ug/L			893628	850087	1	Standard
	Kr	**83**		ug/L			62	48	8	Standard
>	**In-1**	**115**		ug/L			27117	24150	0	KED
	Cd	**111**	**-0.005**	ug/L	0.003	70	3	1	86	KED
	Cd	**114**	**0.001**	ug/L	0.001	128	3	4	27	KED
>	**In**	**115**		ug/L			1764814	1664300	0	Standard
	Ag	**107**	**0.002**	ug/L	0.000	18	70	122	9	Standard
	Sb	**121**	**0.028**	ug/L	0.002	5	359	1030	3	Standard
	Sb	**123**	**0.028**	ug/L	0.001	2	300	773	1	Standard
	Ba	**135**	**0.026**	ug/L	0.002	9	33	204	8	Standard
	Ba	**137**	**0.024**	ug/L	0.002	9	55	316	7	Standard
>	**Tb**	**159**		ug/L			2798401	2721643	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	14	80	286	10	Standard
	Pb	**208**	**0.003**	ug/L	0.000	4	353	735	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:04:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1151380	0	Standard
	Be	**9**	**-0.000**	ug/L	0.001	169	13	10	44	Standard
	C	**13**		ug/L			30879	42267	2	Standard
	Cl	**37**		ug/L			8137590	8168889	0	Standard
>	**Sc**	**45**		ug/L			1506324	1431323	1	Standard
		51		ug/L	0.004	18	7630	7907	0	Standard
	V-1	**51**	**0.006**	ug/L	0.000	4	137	302	1	Standard
	Cr	**52**	**0.123**	ug/L	0.015	12	22519	24485	0	Standard
	Cr	**53**	**0.069**	ug/L	0.002	3	148	334	0	Standard
	Mn	**55**	**-0.014**	ug/L	0.001	5	1780	1129	2	Standard
>	**Ge**	**72**		ug/L			97794	88264	0	KED
	Ni	**60**	**0.001**	ug/L	0.006	550	15	15	54	KED
	Ni	**62**	**0.025**	ug/L	0.012	48	2	8	35	KED
	Cu	**63**	**0.011**	ug/L	0.004	34	99	136	12	KED
	Cu	**65**	**0.013**	ug/L	0.003	25	53	76	8	KED
	Zn	**66**	**-0.191**	ug/L	0.007	3	300	155	3	KED
	Zn	**67**	**-0.090**	ug/L	0.138	153	50	36	37	KED
		75		ug/L	0.003	53	4	5	17	KED
	Se	**78**	**0.111**	ug/L	0.104	93	11	13	24	KED
	Y	**89**		ug/L			893628	864815	0	Standard
	Kr	**83**		ug/L			62	46	8	Standard
>	**In-1**	**115**		ug/L			27117	23777	2	KED
	Cd	**111**	**-0.002**	ug/L	0.003	202	3	2	49	KED
	Cd	**114**	**-0.000**	ug/L	0.003	1220	3	3	74	KED
>	**In**	**115**		ug/L			1764814	1694448	0	Standard
	Ag	**107**	**0.001**	ug/L	0.000	71	70	81	12	Standard
		121		ug/L	0.001	36	359	434	7	Standard
	Sb	**123**	**0.003**	ug/L	0.001	28	300	338	3	Standard
	Ba	**135**	**0.005**	ug/L	0.002	29	33	67	14	Standard
	Ba	**137**	**0.004**	ug/L	0.002	38	55	102	18	Standard
>	**Tb**	**159**		ug/L			2798401	2744743	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	7	80	234	5	Standard
		208		ug/L	0.001	5	353	1446	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:09:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1125219	2	Standard
	Be	**9**	**24.318**	ug/L	0.418	1	13	137067	1	Standard
	C	**13**		ug/L			30879	45746	0	Standard
	Cl	**37**		ug/L			8137590	8500263	0	Standard
>	**Sc**	**45**		ug/L			1506324	1413602	1	Standard
		51		ug/L	0.435	1	7630	721085	1	Standard
	V-1	**51**	**24.687**	ug/L	0.339	1	137	721122	0	Standard
	Cr	**52**	**24.980**	ug/L	0.806	3	22519	639527	2	Standard
	Cr	**53**	**25.981**	ug/L	0.546	2	148	72278	0	Standard
	Mn	**55**	**25.775**	ug/L	0.453	1	1780	989264	1	Standard
>	**Ge**	**72**		ug/L			97794	85909	0	KED
	Ni	**60**	**26.884**	ug/L	0.090	0	15	37681	0	KED
	Ni	**62**	**26.929**	ug/L	0.366	1	2	6177	1	KED
	Cu	**63**	**30.445**	ug/L	0.285	0	99	124110	0	KED
	Cu	**65**	**30.401**	ug/L	0.406	1	53	62509	1	KED
	Zn	**66**	**84.201**	ug/L	1.213	1	300	50111	1	KED
	Zn	**67**	**79.322**	ug/L	0.759	0	50	7769	0	KED
		75		ug/L	0.389	1	4	7193	1	KED
	Se	**78**	**76.644**	ug/L	1.896	2	11	2437	1	KED
	Y	**89**		ug/L			893628	852072	1	Standard
	Kr	**83**		ug/L			62	68	20	Standard
>	**In-1**	**115**		ug/L			27117	22807	0	KED
	Cd	**111**	**26.580**	ug/L	0.405	1	3	8337	0	KED
	Cd	**114**	**26.891**	ug/L	0.477	1	3	21798	1	KED
>	**In**	**115**		ug/L			1764814	1635434	0	Standard
	Ag	**107**	**25.974**	ug/L	0.417	1	70	590233	1	Standard
		121		ug/L	0.077	0	359	591466	0	Standard
	Sb	**123**	**25.499**	ug/L	0.171	0	300	446536	0	Standard
	Ba	**135**	**24.015**	ug/L	0.142	0	33	154046	0	Standard
	Ba	**137**	**24.248**	ug/L	0.159	0	55	260703	1	Standard
>	**Tb**	**159**		ug/L			2798401	2790816	0	Standard
	Tl	**205**	**27.363**	ug/L	0.352	1	80	2445948	1	Standard
		208		ug/L	0.301	1	353	2894313	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:14:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1142800	2	Standard
	Be	**9**	**0.002**	ug/L	0.001	73	13	22	28	Standard
	C	**13**		ug/L			30879	36876	0	Standard
	Cl	**37**		ug/L			8137590	8229004	0	Standard
>	**Sc**	**45**		ug/L			1506324	1416283	0	Standard
	V	**51**	**0.022**	ug/L	0.005	23	7630	7817	1	Standard
	V-1	**51**	**0.000**	ug/L	0.000	608	137	129	2	Standard
		52		ug/L	0.015	16	22519	23374	1	Standard
	Cr	**53**	**0.015**	ug/L	0.007	41	148	182	10	Standard
	Mn	**55**	**-0.008**	ug/L	0.001	7	1780	1369	1	Standard
>	**Ge**	**72**		ug/L			97794	88839	1	KED
	Ni	**60**	**0.003**	ug/L	0.005	189	15	18	41	KED
	Ni	**62**	**0.012**	ug/L	0.004	38	2	5	21	KED
		63		ug/L	0.003	23	99	137	8	KED
	Cu	**65**	**-0.000**	ug/L	0.004	1034	53	47	17	KED
		66	**-**	ug/L	0.015	5	300	123	6	KED
	Zn	**67**	**-0.232**	ug/L	0.031	13	50	22	13	KED
		75	**-**	ug/L	0.001	121	4	3	7	KED
	Se	**78**	**0.021**	ug/L	0.064	298	11	10	19	KED
	Y	**89**		ug/L			893628	864866	0	Standard
	Kr	**83**		ug/L			62	58	27	Standard
>	**In-1**	**115**		ug/L			27117	23822	1	KED
		111		ug/L	0.003	1505	3	2	33	KED
	Cd	**114**	**0.003**	ug/L	0.002	79	3	5	34	KED
>	**In**	**115**		ug/L			1764814	1682038	0	Standard
		107		ug/L	0.000	7	70	130	4	Standard
	Sb	**121**	**-0.005**	ug/L	0.000	7	359	227	4	Standard
	Sb	**123**	**-0.006**	ug/L	0.001	21	300	177	12	Standard
	Ba	**135**	**0.002**	ug/L	0.002	73	33	46	23	Standard
	Ba	**137**	**0.002**	ug/L	0.002	80	55	76	23	Standard
>	**Tb**	**159**		ug/L			2798401	2746961	0	Standard
	Tl	**205**	**0.003**	ug/L	0.000	11	80	370	9	Standard
		208		ug/L	0.000	9	353	574	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:19:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1171016	2	Standard
	Be	**9**	**23.484**	ug/L	0.331	1	13	137762	1	Standard
	C	**13**		ug/L			30879	36167	1	Standard
	Cl	**37**		ug/L			8137590	8229753	1	Standard
>	**Sc**	**45**		ug/L			1506324	1436905	0	Standard
	V	**51**	**23.931**	ug/L	0.215	0	7630	719416	0	Standard
	V-1	**51**	**24.184**	ug/L	0.184	0	137	718168	0	Standard
		52		ug/L	0.202	0	22519	642378	0	Standard
	Cr	**53**	**25.522**	ug/L	0.241	0	148	72189	0	Standard
	Mn	**55**	**25.424**	ug/L	0.299	1	1780	992072	0	Standard
>	**Ge**	**72**		ug/L			97794	89255	0	KED
	Ni	**60**	**26.020**	ug/L	0.320	1	15	37891	0	KED
	Ni	**62**	**25.872**	ug/L	0.220	0	2	6166	0	KED
		63		ug/L	0.536	1	99	113755	1	KED
	Cu	**65**	**26.878**	ug/L	0.132	0	53	57423	0	KED
		66		ug/L	1.427	1	300	50380	1	KED
	Zn	**67**	**77.084**	ug/L	1.534	1	50	7845	2	KED
		75		ug/L	0.425	1	4	7285	1	KED
	Se	**78**	**76.419**	ug/L	0.301	0	11	2525	0	KED
	Y	**89**		ug/L			893628	872619	1	Standard
	Kr	**83**		ug/L			62	67	21	Standard
>	**In-1**	**115**		ug/L			27117	23614	0	KED
		111		ug/L	0.200	0	3	8456	1	KED
	Cd	**114**	**26.218**	ug/L	0.466	1	3	22005	1	KED
>	**In**	**115**		ug/L			1764814	1697802	0	Standard
		107		ug/L	0.331	1	70	619696	1	Standard
	Sb	**121**	**-0.006**	ug/L	0.001	24	359	206	16	Standard
	Sb	**123**	**-0.007**	ug/L	0.001	20	300	165	15	Standard
	Ba	**135**	**23.056**	ug/L	0.122	0	33	153543	0	Standard
	Ba	**137**	**22.822**	ug/L	0.120	0	55	254724	0	Standard
>	**Tb**	**159**		ug/L			2798401	2778174	0	Standard
	Tl	**205**	**27.833**	ug/L	0.143	0	80	2476892	1	Standard
		208		ug/L	0.160	0	353	2919173	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:24:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1104815	7	Standard
	Be	**9**	**0.154**	ug/L	0.012	7	13	862	1	Standard
	C	**13**		ug/L			30879	38811	0	Standard
	Cl	**37**		ug/L			8137590	8154636	0	Standard
>	**Sc**	**45**		ug/L			1506324	1458352	2	Standard
	V	**51**	**25.623**	ug/L	0.816	3	7630	780783	0	Standard
	V-1	**51**	**25.816**	ug/L	0.823	3	137	777623	0	Standard
		52		ug/L	0.445	3	22519	355554	0	Standard
	Cr	**53**	**13.629**	ug/L	0.540	3	148	39166	1	Standard
	Mn	**55**	**397.643**	ug/L	15.407	3	1780	15712028	1	Standard
>	**Ge**	**72**		ug/L			97794	87947	0	KED
	Ni	**60**	**17.367**	ug/L	0.204	1	15	24923	0	KED
	Ni	**62**	**17.654**	ug/L	0.122	0	2	4146	0	KED
		63		ug/L	0.113	0	99	47461	0	KED
	Cu	**65**	**11.440**	ug/L	0.091	0	53	24110	1	KED
		66		ug/L	0.638	2	300	14568	2	KED
	Zn	**67**	**22.651**	ug/L	1.170	5	50	2303	4	KED
		75		ug/L	0.110	4	4	747	3	KED
	Se	**78**	**0.388**	ug/L	0.108	27	11	22	15	KED
	Y	**89**		ug/L			893628	1047853	3	Standard
	Kr	**83**		ug/L			62	136	30	Standard
>	**In-1**	**115**		ug/L			27117	23043	1	KED
		111		ug/L	0.019	41	3	17	35	KED
	Cd	**114**	**0.046**	ug/L	0.006	13	3	40	12	KED
>	**In**	**115**		ug/L			1764814	1611671	3	Standard
		107		ug/L	0.002	5	70	814	5	Standard
	Sb	**121**	**-0.002**	ug/L	0.001	23	359	273	4	Standard
	Sb	**123**	**-0.004**	ug/L	0.000	8	300	198	6	Standard
	Ba	**135**	**16.992**	ug/L	0.741	4	33	107317	1	Standard
	Ba	**137**	**17.234**	ug/L	0.717	4	55	182425	0	Standard
>	**Tb**	**159**		ug/L			2798401	2823248	3	Standard
	Tl	**205**	**0.032**	ug/L	0.002	6	80	2938	2	Standard
	Pb	**208**	**1.618**	ug/L	0.067	4	353	197593	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:29:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1137379	2	Standard
	Be	**9**	**0.161**	ug/L	0.010	6	13	931	3	Standard
	C	**13**		ug/L			30879	40904	1	Standard
	Cl	**37**		ug/L			8137590	8214060	0	Standard
>	**Sc**	**45**		ug/L			1506324	1530133	0	Standard
	V	**51**	**25.071**	ug/L	0.270	1	7630	802222	0	Standard
	V-1	**51**	**25.243**	ug/L	0.261	1	137	798277	0	Standard
		52		ug/L	0.040	0	22519	358839	0	Standard
	Cr	**53**	**13.018**	ug/L	0.054	0	148	39287	0	Standard
	Mn	**55**	**420.366**	ug/L	3.994	0	1780	17440018	1	Standard
>	**Ge**	**72**		ug/L			97794	87698	0	KED
	Ni	**60**	**17.444**	ug/L	0.115	0	15	24965	1	KED
	Ni	**62**	**17.208**	ug/L	0.768	4	2	4029	3	KED
		63		ug/L	0.087	0	99	55478	0	KED
	Cu	**65**	**13.458**	ug/L	0.089	0	53	28276	1	KED
		66		ug/L	0.292	1	300	16387	0	KED
	Zn	**67**	**26.500**	ug/L	0.994	3	50	2678	2	KED
		75		ug/L	0.051	1	4	843	2	KED
	Se	**78**	**0.608**	ug/L	0.107	17	11	29	12	KED
	Y	**89**		ug/L			893628	1117635	1	Standard
	Kr	**83**		ug/L			62	135	12	Standard
>	**In-1**	**115**		ug/L			27117	23310	0	KED
		111		ug/L	0.006	18	3	13	14	KED
	Cd	**114**	**0.049**	ug/L	0.005	9	3	43	9	KED
>	**In**	**115**		ug/L			1764814	1680694	0	Standard
		107		ug/L	0.001	3	70	1057	3	Standard
	Sb	**121**	**-0.004**	ug/L	0.000	4	359	246	1	Standard
	Sb	**123**	**-0.006**	ug/L	0.001	22	300	183	12	Standard
	Ba	**135**	**17.945**	ug/L	0.083	0	33	118309	0	Standard
	Ba	**137**	**18.060**	ug/L	0.137	0	55	199550	0	Standard
>	**Tb**	**159**		ug/L			2798401	2904340	0	Standard
	Tl	**205**	**0.028**	ug/L	0.000	0	80	2713	0	Standard
	Pb	**208**	**2.198**	ug/L	0.006	0	353	276310	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:34:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1120390	1	Standard
	Be	**9**	**0.202**	ug/L	0.004	2	13	1148	1	Standard
	C	**13**		ug/L			30879	42271	2	Standard
	Cl	**37**		ug/L			8137590	8066734	1	Standard
>	**Sc**	**45**		ug/L			1506324	1534141	1	Standard
	V	**51**	**29.478**	ug/L	0.144	0	7630	944381	2	Standard
	V-1	**51**	**29.711**	ug/L	0.108	0	137	942050	2	Standard
		52		ug/L	0.166	1	22519	468106	1	Standard
	Cr	**53**	**17.254**	ug/L	0.162	0	148	52150	0	Standard
	Mn	**55**	**198.143**	ug/L	1.964	0	1780	8241863	0	Standard
>	**Ge**	**72**		ug/L			97794	86848	0	KED
	Ni	**60**	**21.439**	ug/L	0.203	0	15	30380	0	KED
	Ni	**62**	**21.328**	ug/L	0.303	1	2	4946	1	KED
		63		ug/L	0.307	1	99	80443	1	KED
	Cu	**65**	**19.434**	ug/L	0.347	1	53	40411	1	KED
		66		ug/L	0.399	0	300	25544	1	KED
	Zn	**67**	**40.369**	ug/L	0.572	1	50	4018	1	KED
		75		ug/L	0.082	2	4	1149	1	KED
	Se	**78**	**0.583**	ug/L	0.124	21	11	28	13	KED
	Y	**89**		ug/L			893628	1135447	0	Standard
	Kr	**83**		ug/L			62	140	8	Standard
>	**In-1**	**115**		ug/L			27117	23121	1	KED
		111		ug/L	0.011	11	3	32	11	KED
	Cd	**114**	**0.076**	ug/L	0.022	29	3	65	29	KED
>	**In**	**115**		ug/L			1764814	1645263	1	Standard
		107		ug/L	0.004	5	70	1748	4	Standard
	Sb	**121**	**-0.002**	ug/L	0.001	56	359	277	11	Standard
	Sb	**123**	**-0.004**	ug/L	0.001	27	300	213	7	Standard
	Ba	**135**	**20.348**	ug/L	0.515	2	33	131293	1	Standard
	Ba	**137**	**20.285**	ug/L	0.437	2	55	219362	0	Standard
>	**Tb**	**159**		ug/L			2798401	2914210	0	Standard
	Tl	**205**	**0.031**	ug/L	0.001	3	80	3013	3	Standard
	Pb	**208**	**5.226**	ug/L	0.019	0	353	658770	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:39:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1127237	2	Standard
⌊	**Be**	**9**	**0.164**	ug/L	0.015	9	13	939	6	Standard
	C	**13**		ug/L			30879	40142	0	Standard
	Cl	**37**		ug/L			8137590	8085351	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1516936	2	Standard
⌈	**V**	**51**	**24.582**	ug/L	0.607	2	7630	779619	0	Standard
⌈	**V-1**	**51**	**24.778**	ug/L	0.682	2	137	776455	0	Standard
⌈	[redacted]	**52**	[redacted]	ug/L	0.315	2	22519	386473	0	Standard
⌈	**Cr**	**53**	**14.273**	ug/L	0.551	3	148	42659	1	Standard
⌊	**Mn**	**55**	**218.883**	ug/L	6.472	2	1780	8999307	1	Standard
⌈>	**Ge**	**72**		ug/L			97794	87903	0	KED
⌈	**Ni**	**60**	**18.316**	ug/L	0.160	0	15	26272	0	KED
⌈	**Ni**	**62**	**18.060**	ug/L	0.454	2	2	4239	2	KED
⌈	[redacted]	**63**	[redacted]	ug/L	0.198	1	99	59114	1	KED
⌈	**Cu**	**65**	**14.018**	ug/L	0.042	0	53	29518	0	KED
⌈	[redacted]	**66**	[redacted]	ug/L	0.426	1	300	18624	1	KED
⌈	**Zn**	**67**	**28.954**	ug/L	0.228	0	50	2930	0	KED
⌈	[redacted]	**75**	[redacted]	ug/L	0.027	0	4	875	0	KED
⌊	**Se**	**78**	**0.451**	ug/L	0.159	35	11	24	20	KED
	Y	**89**		ug/L			893628	1113945	1	Standard
	Kr	**83**		ug/L			62	138	8	Standard
⌈>	**In-1**	**115**		ug/L			27117	22637	0	KED
⌈	[redacted]	**111**	[redacted]	ug/L	0.020	56	3	13	45	KED
⌊	**Cd**	**114**	**0.046**	ug/L	0.008	17	3	40	15	KED
⌈>	**In**	**115**		ug/L			1764814	1665795	2	Standard
⌈	[redacted]	**107**	[redacted]	ug/L	0.002	3	70	1367	1	Standard
⌈	**Sb**	**121**	**-0.005**	ug/L	0.000	5	359	218	5	Standard
⌈	**Sb**	**123**	**-0.008**	ug/L	0.000	4	300	141	5	Standard
⌈	**Ba**	**135**	**15.680**	ug/L	0.194	1	33	102445	1	Standard
⌊	**Ba**	**137**	**15.829**	ug/L	0.300	1	55	173310	0	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2927776	1	Standard
⌈	**Tl**	**205**	**0.024**	ug/L	0.001	4	80	2360	2	Standard
⌊	**Pb**	**208**	**2.055**	ug/L	0.038	1	353	260407	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:44:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1108713	1	Standard
⌊	**Be**	**9**	**0.174**	ug/L	0.005	2	13	977	1	Standard
	C	**13**		ug/L			30879	41568	0	Standard
	Cl	**37**		ug/L			8137590	8080385	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1528071	0	Standard
⌈	**V**	**51**	**26.231**	ug/L	0.161	0	7630	837832	0	Standard
⌈	**V-1**	**51**	**26.478**	ug/L	0.207	0	137	836168	0	Standard
⌈		**52**		ug/L	0.245	1	22519	395302	0	Standard
⌈	**Cr**	**53**	**14.653**	ug/L	0.362	2	148	44136	1	Standard
⌊	**Mn**	**55**	**233.710**	ug/L	7.149	3	1780	9682038	2	Standard
⌈>	**Ge**	**72**		ug/L			97794	87693	0	KED
⌈	**Ni**	**60**	**16.767**	ug/L	0.384	2	15	23992	1	KED
⌈	**Ni**	**62**	**16.720**	ug/L	0.318	1	2	3916	1	KED
⌈		**63**		ug/L	0.167	1	99	52214	0	KED
⌈	**Cu**	**65**	**12.458**	ug/L	0.098	0	53	26176	1	KED
⌈		**66**		ug/L	0.235	0	300	15857	0	KED
⌈	**Zn**	**67**	**25.197**	ug/L	0.446	1	50	2550	2	KED
⌈		**75**		ug/L	0.057	2	4	682	2	KED
⌊	**Se**	**78**	**0.535**	ug/L	0.070	13	11	27	8	KED
	Y	**89**		ug/L			893628	1131888	1	Standard
	Kr	**83**		ug/L			62	135	9	Standard
⌈>	**In-1**	**115**		ug/L			27117	23003	0	KED
⌈		**111**		ug/L	0.002	4	3	16	3	KED
⌊	**Cd**	**114**	**0.037**	ug/L	0.004	10	3	33	9	KED
⌈>	**In**	**115**		ug/L			1764814	1660043	1	Standard
⌈		**107**		ug/L	0.002	4	70	964	3	Standard
⌈	**Sb**	**121**	**-0.006**	ug/L	0.001	16	359	194	11	Standard
⌈	**Sb**	**123**	**-0.007**	ug/L	0.001	7	300	151	5	Standard
⌈	**Ba**	**135**	**20.573**	ug/L	0.130	0	33	133958	1	Standard
⌊	**Ba**	**137**	**20.766**	ug/L	0.257	1	55	226604	0	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2920669	0	Standard
⌈	**Tl**	**205**	**0.038**	ug/L	0.000	0	80	3643	0	Standard
⌊	**Pb**	**208**	**1.509**	ug/L	0.023	1	353	190848	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:49:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1112857	3	Standard
	Be	**9**	**0.162**	ug/L	0.002	1	13	917	4	Standard
	C	**13**		ug/L			30879	38445	1	Standard
	Cl	**37**		ug/L			8137590	8090127	1	Standard
>	**Sc**	**45**		ug/L			1506324	1519789	1	Standard
	V	**51**	**26.845**	ug/L	0.179	0	7630	852648	1	Standard
	V-1	**51**	**27.049**	ug/L	0.115	0	137	849582	1	Standard
		52		ug/L	0.183	1	22519	401558	0	Standard
	Cr	**53**	**14.818**	ug/L	0.066	0	148	44395	1	Standard
	Mn	**55**	**242.283**	ug/L	1.755	0	1780	9984311	1	Standard
>	**Ge**	**72**		ug/L			97794	86466	1	KED
	Ni	**60**	**18.275**	ug/L	0.441	2	15	25779	0	KED
	Ni	**62**	**18.251**	ug/L	0.439	2	2	4214	2	KED
		63		ug/L	0.041	0	99	52438	1	KED
	Cu	**65**	**12.696**	ug/L	0.020	0	53	26302	1	KED
		66		ug/L	0.629	2	300	18369	2	KED
	Zn	**67**	**28.439**	ug/L	0.675	2	50	2831	0	KED
		75		ug/L	0.093	3	4	781	2	KED
	Se	**78**	**0.470**	ug/L	0.132	28	11	24	15	KED
	Y	**89**		ug/L			893628	1133057	2	Standard
	Kr	**83**		ug/L			62	119	16	Standard
>	**In-1**	**115**		ug/L			27117	23481	1	KED
		111		ug/L	0.007	16	3	17	14	KED
	Cd	**114**	**0.048**	ug/L	0.014	30	3	43	26	KED
>	**In**	**115**		ug/L			1764814	1674510	1	Standard
		107		ug/L	0.003	5	70	1201	4	Standard
	Sb	**121**	**-0.004**	ug/L	0.001	18	359	250	7	Standard
	Sb	**123**	**-0.005**	ug/L	0.001	17	300	201	8	Standard
	Ba	**135**	**18.044**	ug/L	0.199	1	33	118516	0	Standard
	Ba	**137**	**18.219**	ug/L	0.385	2	55	200533	1	Standard
>	**Tb**	**159**		ug/L			2798401	2930522	1	Standard
	Tl	**205**	**0.031**	ug/L	0.001	2	80	2959	1	Standard
	Pb	**208**	**2.099**	ug/L	0.030	1	353	266202	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 01:57:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1109855	2	Standard
	Be	**9**	**48.947**	ug/L	0.710	1	13	272127	1	Standard
	C	**13**		ug/L			30879	29818	1	Standard
	Cl	**37**		ug/L			8137590	8492651	0	Standard
>	**Sc**	**45**		ug/L			1506324	1377382	1	Standard
	V	**51**	**47.884**	ug/L	0.749	1	7630	1373034	2	Standard
	V-1	**51**	**48.524**	ug/L	0.692	1	137	1381293	2	Standard
	Cr	**52**	**48.603**	ug/L	0.387	0	22519	1193248	0	Standard
	Cr	**53**	**50.759**	ug/L	0.960	1	148	137478	0	Standard
	Mn	**55**	**50.411**	ug/L	0.542	1	1780	1883881	0	Standard
>	**Ge**	**72**		ug/L			97794	85611	1	KED
	Ni	**60**	**51.554**	ug/L	0.218	0	15	71994	0	KED
	Ni	**62**	**51.145**	ug/L	0.068	0	2	11690	1	KED
	Cu	**63**	**52.028**	ug/L	0.882	1	99	211276	0	KED
	Cu	**65**	**51.984**	ug/L	0.654	1	53	106475	0	KED
	Zn	**66**	**52.253**	ug/L	0.284	0	300	31090	1	KED
	Zn	**67**	**51.503**	ug/L	0.791	1	50	5042	1	KED
	As	**75**	**50.613**	ug/L	0.852	1	4	14357	0	KED
	Se	**78**	**51.107**	ug/L	0.957	1	11	1623	0	KED
	Y	**89**		ug/L			893628	846604	1	Standard
	Kr	**83**		ug/L			62	58	26	Standard
>	**In-1**	**115**		ug/L			27117	23379	0	KED
	Cd	**111**	**51.668**	ug/L	0.260	0	3	16611	0	KED
	Cd	**114**	**52.351**	ug/L	0.467	0	3	43499	0	KED
>	**In**	**115**		ug/L			1764814	1640870	0	Standard
	Ag	**107**	**50.683**	ug/L	0.742	1	70	1155507	1	Standard
	Sb	**121**	**47.178**	ug/L	0.152	0	359	1144413	0	Standard
	Sb	**123**	**49.434**	ug/L	0.185	0	300	868341	0	Standard
	Ba	**135**	**46.076**	ug/L	0.433	0	33	296516	0	Standard
	Ba	**137**	**45.944**	ug/L	0.373	0	55	495543	0	Standard
>	**Tb**	**159**		ug/L			2798401	2779426	0	Standard
	Tl	**205**	**52.185**	ug/L	0.544	1	80	4645666	0	Standard
	Pb	**208**	**49.052**	ug/L	0.129	0	353	5894364	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:05:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1108884	3	Standard
	Be	**9**	**0.001**	ug/L	0.002	188	13	18	53	Standard
	C	**13**		ug/L			30879	30077	1	Standard
	Cl	**37**		ug/L			8137590	8097518	0	Standard
>	**Sc**	**45**		ug/L			1506324	1399010	1	Standard
	V	**51**	**0.023**	ug/L	0.004	15	7630	7750	1	Standard
	V-1	**51**	**0.000**	ug/L	0.000	160	137	132	6	Standard
	Cr	**52**	**0.071**	ug/L	0.012	16	22519	22659	0	Standard
	Cr	**53**	**-0.005**	ug/L	0.006	128	148	124	13	Standard
	Mn	**55**	**-0.011**	ug/L	0.001	5	1780	1224	0	Standard
>	**Ge**	**72**		ug/L			97794	87465	2	KED
	Ni	**60**	**0.000**	ug/L	0.003	1131	15	14	30	KED
	Ni	**62**	**0.012**	ug/L	0.005	37	2	5	21	KED
	Cu	**63**	**0.006**	ug/L	0.003	42	99	116	11	KED
	Cu	**65**	**0.010**	ug/L	0.003	33	53	69	8	KED
	Zn	**66**	**-0.129**	ug/L	0.024	18	300	191	8	KED
	Zn	**67**	**-0.164**	ug/L	0.049	30	50	28	17	KED
	As	**75**	**-0.003**	ug/L	0.003	106	4	2	33	KED
	Se	**78**	**-0.007**	ug/L	0.078	1079	11	9	24	KED
	Y	**89**		ug/L			893628	826241	2	Standard
	Kr	**83**		ug/L			62	63	19	Standard
>	**In-1**	**115**		ug/L			27117	23251	0	KED
	Cd	**111**	**0.001**	ug/L	0.002	116	3	3	17	KED
	Cd	**114**	**-0.001**	ug/L	0.003	259	3	2	90	KED
>	**In**	**115**		ug/L			1764814	1650274	1	Standard
	Ag	**107**	**0.004**	ug/L	0.001	25	70	151	13	Standard
	Sb	**121**	**0.029**	ug/L	0.000	1	359	1051	0	Standard
	Sb	**123**	**0.030**	ug/L	0.003	10	300	808	8	Standard
	Ba	**135**	**0.030**	ug/L	0.004	11	33	226	10	Standard
	Ba	**137**	**0.034**	ug/L	0.002	4	55	419	5	Standard
>	**Tb**	**159**		ug/L			2798401	2721232	1	Standard
	Tl	**205**	**0.002**	ug/L	0.000	9	80	271	6	Standard
	Pb	**208**	**0.003**	ug/L	0.000	6	353	732	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:10:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1026337	1	Standard
	Be	**9**	**0.002**	ug/L	0.002	69	13	23	32	Standard
	C	**13**		ug/L			30879	41904	0	Standard
	Cl	**37**		ug/L			8137590	7598114	0	Standard
>	**Sc**	**45**		ug/L			1506324	1185127	0	Standard
		51		ug/L	0.023	1	7630	47222	0	Standard
	V-1	**51**	**1.752**	ug/L	0.008	0	137	43013	0	Standard
	Cr	**52**	**1.537**	ug/L	0.023	1	22519	49626	0	Standard
	Cr	**53**	**1.780**	ug/L	0.045	2	148	4261	2	Standard
	Mn	**55**	**4.506**	ug/L	0.052	1	1780	146182	1	Standard
>	**Ge**	**72**		ug/L			97794	69944	0	KED
	Ni	**60**	**1.871**	ug/L	0.072	3	15	2145	3	KED
	Ni	**62**	**1.833**	ug/L	0.147	8	2	344	8	KED
	Cu	**63**	**3.134**	ug/L	0.066	2	99	10467	2	KED
	Cu	**65**	**3.105**	ug/L	0.080	2	53	5232	2	KED
	Zn	**66**	**1.288**	ug/L	0.085	6	300	836	4	KED
	Zn	**67**	**5.113**	ug/L	0.077	1	50	441	1	KED
		75		ug/L	0.104	0	4	2425	1	KED
	Se	**78**	**0.699**	ug/L	0.080	11	11	26	7	KED
	Y	**89**		ug/L			893628	730987	0	Standard
	Kr	**83**		ug/L			62	91	16	Standard
>	**In-1**	**115**		ug/L			27117	18744	0	KED
	Cd	**111**	**0.044**	ug/L	0.004	9	3	13	8	KED
	Cd	**114**	**0.043**	ug/L	0.017	38	3	31	35	KED
>	**In**	**115**		ug/L			1764814	1348001	0	Standard
	Ag	**107**	**0.006**	ug/L	0.001	10	70	174	7	Standard
	Sb	**121**	**6.948**	ug/L	0.086	1	359	138693	1	Standard
	Sb	**123**	**7.307**	ug/L	0.060	0	300	105645	0	Standard
	Ba	**135**	**73.027**	ug/L	0.253	0	33	386072	0	Standard
	Ba	**137**	**73.556**	ug/L	0.600	0	55	651730	0	Standard
>	**Tb**	**159**		ug/L			2798401	2483902	0	Standard
	Tl	**205**	**0.252**	ug/L	0.004	1	80	20113	2	Standard
	Pb	**208**	**25.269**	ug/L	0.115	0	353	2713812	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:15:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1031167	1	Standard
	Be	**9**	**0.006**	ug/L	0.002	40	13	41	30	Standard
	C	**13**		ug/L			30879	43171	1	Standard
	Cl	**37**		ug/L			8137590	7619068	0	Standard
>	**Sc**	**45**		ug/L			1506324	1188970	1	Standard
		51		ug/L	0.016	0	7630	48080	0	Standard
	V-1	**51**	**1.776**	ug/L	0.015	0	137	43730	0	Standard
	Cr	**52**	**1.659**	ug/L	0.017	1	22519	52319	0	Standard
	Cr	**53**	**1.885**	ug/L	0.013	0	148	4520	0	Standard
	Mn	**55**	**4.604**	ug/L	0.012	0	1780	149811	0	Standard
>	**Ge**	**72**		ug/L			97794	70406	0	KED
	Ni	**60**	**1.941**	ug/L	0.054	2	15	2240	3	KED
	Ni	**62**	**2.126**	ug/L	0.153	7	2	401	6	KED
	Cu	**63**	**3.489**	ug/L	0.058	1	99	11720	0	KED
	Cu	**65**	**3.537**	ug/L	0.085	2	53	5994	1	KED
	Zn	**66**	**5.948**	ug/L	0.227	3	300	3101	2	KED
	Zn	**67**	**7.894**	ug/L	0.390	4	50	666	4	KED
		75		ug/L	0.032	0	4	2615	0	KED
	Se	**78**	**0.707**	ug/L	0.082	11	11	26	7	KED
	Y	**89**		ug/L			893628	722609	1	Standard
	Kr	**83**		ug/L			62	86	9	Standard
>	**In-1**	**115**		ug/L			27117	18594	2	KED
	Cd	**111**	**0.051**	ug/L	0.018	34	3	15	31	KED
	Cd	**114**	**0.036**	ug/L	0.013	37	3	25	32	KED
>	**In**	**115**		ug/L			1764814	1360503	0	Standard
	Ag	**107**	**0.010**	ug/L	0.002	17	70	249	14	Standard
	Sb	**121**	**6.577**	ug/L	0.024	0	359	132508	0	Standard
	Sb	**123**	**6.832**	ug/L	0.010	0	300	99700	0	Standard
	Ba	**135**	**48.074**	ug/L	0.457	0	33	256509	0	Standard
	Ba	**137**	**48.150**	ug/L	0.485	1	55	430582	0	Standard
>	**Tb**	**159**		ug/L			2798401	2521357	0	Standard
	Tl	**205**	**0.235**	ug/L	0.005	2	80	19039	1	Standard
	Pb	**208**	**16.790**	ug/L	0.153	0	353	1830489	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:20:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1056077	1	Standard
	Be	**9**	**0.002**	ug/L	0.002	117	13	20	48	Standard
	C	**13**		ug/L			30879	43335	0	Standard
	Cl	**37**		ug/L			8137590	7564155	0	Standard
>	**Sc**	**45**		ug/L			1506324	1173852	1	Standard
		51		ug/L	0.037	3	7630	35270	2	Standard
	V-1	**51**	**1.278**	ug/L	0.032	2	137	31102	2	Standard
	Cr	**52**	**1.533**	ug/L	0.027	1	22519	49067	1	Standard
	Cr	**53**	**1.776**	ug/L	0.012	0	148	4211	1	Standard
	Mn	**55**	**4.493**	ug/L	0.067	1	1780	144376	1	Standard
>	**Ge**	**72**		ug/L			97794	71000	0	KED
	Ni	**60**	**1.920**	ug/L	0.018	0	15	2235	0	KED
	Ni	**62**	**1.963**	ug/L	0.055	2	2	373	2	KED
	Cu	**63**	**3.334**	ug/L	0.044	1	99	11297	1	KED
	Cu	**65**	**3.346**	ug/L	0.027	0	53	5721	0	KED
	Zn	**66**	**4.338**	ug/L	0.136	3	300	2341	3	KED
	Zn	**67**	**7.309**	ug/L	0.414	5	50	624	5	KED
	As	**75**	**8.912**	ug/L	0.166	1	4	2099	1	KED
	Se	**78**	**0.813**	ug/L	0.208	25	11	29	18	KED
	Y	**89**		ug/L			893628	723524	2	Standard
	Kr	**83**		ug/L			62	113	5	Standard
>	**In-1**	**115**		ug/L			27117	19116	1	KED
	Cd	**111**	**0.054**	ug/L	0.043	80	3	16	69	KED
	Cd	**114**	**0.028**	ug/L	0.006	20	3	21	18	KED
>	**In**	**115**		ug/L			1764814	1348524	1	Standard
	Ag	**107**	**0.006**	ug/L	0.000	5	70	175	4	Standard
	Sb	**121**	**6.074**	ug/L	0.109	1	359	121312	0	Standard
	Sb	**123**	**6.382**	ug/L	0.069	1	300	92320	0	Standard
	Ba	**135**	**61.924**	ug/L	0.769	1	33	327468	0	Standard
	Ba	**137**	**61.851**	ug/L	0.592	0	55	548195	0	Standard
>	**Tb**	**159**		ug/L			2798401	2520039	1	Standard
	Tl	**205**	**0.274**	ug/L	0.003	0	80	22170	0	Standard
	Pb	**208**	**22.768**	ug/L	0.346	1	353	2480657	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:26:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1033216	1	Standard
	Be	**9**	**0.012**	ug/L	0.009	72	13	74	60	Standard
	C	**13**		ug/L			30879	40864	0	Standard
	Cl	**37**		ug/L			8137590	7687544	1	Standard
>	**Sc**	**45**		ug/L			1506324	1197193	2	Standard
		51		ug/L	0.024	2	7630	30660	1	Standard
	V-1	**51**	**1.051**	ug/L	0.023	2	137	26103	2	Standard
	Cr	**52**	**1.354**	ug/L	0.032	2	22519	46282	1	Standard
	Cr	**53**	**1.554**	ug/L	0.037	2	148	3772	3	Standard
	Mn	**55**	**1.410**	ug/L	0.038	2	1780	47185	3	Standard
>	**Ge**	**72**		ug/L			97794	74319	0	KED
	Ni	**60**	**1.574**	ug/L	0.055	3	15	1919	3	KED
	Ni	**62**	**1.552**	ug/L	0.089	5	2	309	5	KED
	Cu	**63**	**2.301**	ug/L	0.030	1	99	8183	1	KED
	Cu	**65**	**2.266**	ug/L	0.046	2	53	4068	2	KED
	Zn	**66**	**0.387**	ug/L	0.002	0	300	426	0	KED
	Zn	**67**	**0.791**	ug/L	0.276	34	50	104	22	KED
		75		ug/L	0.111	1	4	1971	1	KED
	Se	**78**	**0.624**	ug/L	0.141	22	11	25	14	KED
	Y	**89**		ug/L			893628	726625	1	Standard
	Kr	**83**		ug/L			62	108	4	Standard
>	**In-1**	**115**		ug/L			27117	20165	1	KED
	Cd	**111**	**0.033**	ug/L	0.008	25	3	11	22	KED
	Cd	**114**	**0.025**	ug/L	0.015	58	3	20	50	KED
>	**In**	**115**		ug/L			1764814	1391939	0	Standard
	Ag	**107**	**0.018**	ug/L	0.011	60	70	394	51	Standard
		121		ug/L	0.045	0	359	119097	1	Standard
	Sb	**123**	**6.072**	ug/L	0.067	1	300	90678	0	Standard
	Ba	**135**	**13.049**	ug/L	0.096	0	33	71259	1	Standard
	Ba	**137**	**12.950**	ug/L	0.104	0	55	118521	1	Standard
>	**Tb**	**159**		ug/L			2798401	2544818	0	Standard
	Tl	**205**	**0.245**	ug/L	0.015	5	80	20023	5	Standard
		208		ug/L	0.047	11	353	43627	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:34:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1089453	0	Standard
	Be	**9**	**0.185**	ug/L	0.009	4	13	1020	4	Standard
	C	**13**		ug/L			30879	40610	0	Standard
	Cl	**37**		ug/L			8137590	8251971	0	Standard
>	**Sc**	**45**		ug/L			1506324	1446013	0	Standard
	V	**51**	**23.661**	ug/L	0.077	0	7630	715901	0	Standard
	V-1	**51**	**23.842**	ug/L	0.042	0	137	712519	0	Standard
		52		ug/L	0.184	1	22519	292089	1	Standard
	Cr	**53**	**11.186**	ug/L	0.263	2	148	31924	3	Standard
	Mn	**55**	**188.230**	ug/L	2.890	1	1780	7381058	2	Standard
>	**Ge**	**72**		ug/L			97794	89716	0	KED
	Ni	**60**	**7.855**	ug/L	0.039	0	15	11508	0	KED
	Ni	**62**	**7.972**	ug/L	0.198	2	2	1911	3	KED
		63		ug/L	0.096	0	99	63160	0	KED
	Cu	**65**	**14.787**	ug/L	0.249	1	53	31777	1	KED
		66		ug/L	0.591	1	300	22623	0	KED
	Zn	**67**	**36.384**	ug/L	1.361	3	50	3745	2	KED
		75		ug/L	0.078	1	4	2304	0	KED
	Se	**78**	**0.450**	ug/L	0.134	29	11	25	18	KED
	Y	**89**		ug/L			893628	1019759	0	Standard
	Kr	**83**		ug/L			62	124	16	Standard
>	**In-1**	**115**		ug/L			27117	24402	1	KED
		111		ug/L	0.014	31	3	17	27	KED
	Cd	**114**	**0.038**	ug/L	0.012	32	3	36	29	KED
>	**In**	**115**		ug/L			1764814	1640512	1	Standard
		107		ug/L	0.001	1	70	2099	2	Standard
	Sb	**121**	**0.030**	ug/L	0.001	3	359	1066	1	Standard
	Sb	**123**	**0.031**	ug/L	0.002	6	300	817	4	Standard
	Ba	**135**	**23.439**	ug/L	0.377	1	33	150801	0	Standard
	Ba	**137**	**23.510**	ug/L	0.469	1	55	253505	1	Standard
>	**Tb**	**159**		ug/L			2798401	2956083	1	Standard
	Tl	**205**	**0.027**	ug/L	0.001	4	80	2676	5	Standard
		208		ug/L	0.105	1	353	1056172	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:39:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1096677	2	Standard
	Be	**9**	**0.141**	ug/L	0.012	8	13	784	6	Standard
	C	**13**		ug/L			30879	40454	0	Standard
	Cl	**37**		ug/L			8137590	8209490	0	Standard
>	**Sc**	**45**		ug/L			1506324	1436152	1	Standard
	V	**51**	**25.549**	ug/L	0.433	1	7630	767047	0	Standard
	V-1	**51**	**25.715**	ug/L	0.377	1	137	763152	0	Standard
		52		ug/L	0.201	2	22519	267950	0	Standard
	Cr	**53**	**10.239**	ug/L	0.156	1	148	29032	2	Standard
	Mn	**55**	**195.457**	ug/L	1.818	0	1780	7611516	1	Standard
>	**Ge**	**72**		ug/L			97794	90227	0	KED
	Ni	**60**	**8.050**	ug/L	0.176	2	15	11859	1	KED
	Ni	**62**	**8.152**	ug/L	0.186	2	2	1965	2	KED
		63		ug/L	0.061	0	99	67619	0	KED
	Cu	**65**	**15.870**	ug/L	0.467	2	53	34291	2	KED
		66		ug/L	0.424	1	300	23232	0	KED
	Zn	**67**	**35.171**	ug/L	0.916	2	50	3643	2	KED
		75		ug/L	0.068	1	4	1987	0	KED
	Se	**78**	**0.603**	ug/L	0.147	24	11	30	16	KED
	Y	**89**		ug/L			893628	1049791	0	Standard
	Kr	**83**		ug/L			62	119	6	Standard
>	**In-1**	**115**		ug/L			27117	21454	19	KED
		111		ug/L	0.017	31	3	17	11	KED
	Cd	**114**	**0.049**	ug/L	0.020	41	3	38	22	KED
>	**In**	**115**		ug/L			1764814	1653332	0	Standard
		107		ug/L	0.002	3	70	1400	4	Standard
	Sb	**121**	**0.005**	ug/L	0.001	22	359	448	6	Standard
	Sb	**123**	**0.002**	ug/L	0.001	72	300	316	7	Standard
	Ba	**135**	**21.805**	ug/L	0.162	0	33	141404	0	Standard
	Ba	**137**	**22.083**	ug/L	0.223	1	55	240009	0	Standard
>	**Tb**	**159**		ug/L			2798401	2970825	0	Standard
	Tl	**205**	**0.023**	ug/L	0.001	2	80	2313	2	Standard
		208		ug/L	0.059	0	353	1132655	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:44:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1098152	2	Standard
	Be	**9**	**24.231**	ug/L	0.209	0	13	133308	1	Standard
	C	**13**		ug/L			30879	39909	0	Standard
	Cl	**37**		ug/L			8137590	8289854	0	Standard
>	**Sc**	**45**		ug/L			1506324	1455010	1	Standard
	V	**51**	**47.611**	ug/L	0.879	1	7630	1441849	1	Standard
	V-1	**51**	**48.044**	ug/L	0.929	1	137	1444406	1	Standard
		52		ug/L	0.371	1	22519	862760	0	Standard
	Cr	**53**	**34.346**	ug/L	0.584	1	148	98309	0	Standard
	Mn	**55**	**206.799**	ug/L	1.715	0	1780	8158617	0	Standard
>	**Ge**	**72**		ug/L			97794	90046	0	KED
	Ni	**60**	**34.072**	ug/L	0.442	1	15	50050	0	KED
	Ni	**62**	**34.608**	ug/L	1.027	2	2	8321	3	KED
		63		ug/L	0.574	1	99	179308	0	KED
	Cu	**65**	**42.081**	ug/L	0.198	0	53	90675	0	KED
		66		ug/L	1.051	0	300	72553	0	KED
	Zn	**67**	**110.679**	ug/L	2.310	2	50	11344	2	KED
		75		ug/L	0.261	0	4	9047	0	KED
	Se	**78**	**75.543**	ug/L	0.607	0	11	2519	0	KED
	Y	**89**		ug/L			893628	1039743	0	Standard
	Kr	**83**		ug/L			62	130	5	Standard
>	**In-1**	**115**		ug/L			27117	23534	0	KED
		111		ug/L	0.136	0	3	8496	0	KED
	Cd	**114**	**26.188**	ug/L	0.078	0	3	21905	0	KED
>	**In**	**115**		ug/L			1764814	1640955	0	Standard
		107		ug/L	0.462	2	70	434054	2	Standard
	Sb	**121**	**0.003**	ug/L	0.001	32	359	416	6	Standard
	Sb	**123**	**0.001**	ug/L	0.002	252	300	290	9	Standard
	Ba	**135**	**47.057**	ug/L	0.590	1	33	302841	0	Standard
	Ba	**137**	**47.653**	ug/L	0.643	1	55	513969	0	Standard
>	**Tb**	**159**		ug/L			2798401	2992942	0	Standard
	Tl	**205**	**25.199**	ug/L	0.301	1	80	2415628	0	Standard
		208		ug/L	0.232	0	353	4369761	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: [redacted]
Sample Dil Factor: [redacted]
Comments:
Sample Date/Time: Thursday, June 02, 2022 02:49:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1076010	1	Standard
	Be	**9**	**25.181**	ug/L	0.441	1	13	135737	0	Standard
	C	**13**		ug/L			30879	39586	0	Standard
	Cl	**37**		ug/L			8137590	8235264	0	Standard
>	**Sc**	**45**		ug/L			1506324	1450761	1	Standard
	V	**51**	**47.592**	ug/L	0.748	1	7630	1437098	0	Standard
	V-1	**51**	**48.071**	ug/L	0.963	2	137	1441002	1	Standard
	[redacted]	**52**	[redacted]	ug/L	0.265	0	22519	868814	1	Standard
	Cr	**53**	**34.835**	ug/L	0.644	1	148	99424	1	Standard
	Mn	**55**	**204.525**	ug/L	2.082	1	1780	8045199	0	Standard
>	**Ge**	**72**		ug/L			97794	89577	1	KED
	Ni	**60**	**33.789**	ug/L	0.370	1	15	49374	0	KED
	Ni	**62**	**34.217**	ug/L	0.780	2	2	8183	1	KED
	[redacted]	**63**	[redacted]	ug/L	0.643	1	99	176805	2	KED
	Cu	**65**	**41.695**	ug/L	0.690	1	53	89364	0	KED
	[redacted]	**66**	[redacted]	ug/L	0.413	0	300	71927	0	KED
	Zn	**67**	**112.327**	ug/L	0.900	0	50	11452	0	KED
	[redacted]	**75**	[redacted]	ug/L	0.215	0	4	9039	0	KED
	Se	**78**	**76.613**	ug/L	0.780	1	11	2541	2	KED
	Y	**89**		ug/L			893628	1070947	1	Standard
	Kr	**83**		ug/L			62	138	15	Standard
>	**In-1**	**115**		ug/L			27117	23668	1	KED
	[redacted]	**111**	[redacted]	ug/L	0.578	2	3	8497	1	KED
	Cd	**114**	**26.274**	ug/L	0.279	1	3	22101	0	KED
>	**In**	**115**		ug/L			1764814	1663723	1	Standard
	[redacted]	**107**	[redacted]	ug/L	0.475	2	70	525401	2	Standard
	Sb	**121**	**0.038**	ug/L	0.002	5	359	1284	3	Standard
	Sb	**123**	**0.042**	ug/L	0.001	1	300	1035	0	Standard
	Ba	**135**	**77.703**	ug/L	1.325	1	33	506955	1	Standard
	Ba	**137**	**79.066**	ug/L	0.888	1	55	864555	0	Standard
>	**Tb**	**159**		ug/L			2798401	2998628	0	Standard
	Tl	**205**	**25.671**	ug/L	0.622	2	80	2465459	1	Standard
	[redacted]	**208**	[redacted]	ug/L	0.677	1	353	4422063	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0010-PS1
Sample Dil Factor: 20
Comments: DEL
Sample Date/Time: Thursday, June 02, 2022 02:54:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1092035	2	Standard
	Be	**9**	**23.561**	ug/L	0.131	0	13	128909	2	Standard
	C	**13**		ug/L			30879	42130	0	Standard
	Cl	**37**		ug/L			8137590	8220878	1	Standard
>	**Sc**	**45**		ug/L			1506324	1453316	0	Standard
	V	**51**	**45.958**	ug/L	0.536	1	7630	1390536	0	Standard
	V-1	**51**	**46.502**	ug/L	0.393	0	137	1396554	0	Standard
	Cr	**52**	**33.273**	ug/L	0.162	0	22519	868824	1	Standard
	Cr	**53**	**35.007**	ug/L	0.490	1	148	100101	1	Standard
	Mn	**55**	**213.905**	ug/L	2.998	1	1780	8429307	1	Standard
>	**Ge**	**72**		ug/L			97794	88441	1	KED
	Ni	**60**	**33.157**	ug/L	0.383	1	15	47834	0	KED
	Ni	**62**	**32.667**	ug/L	0.477	1	2	7713	1	KED
	Cu	**63**	**40.889**	ug/L	0.459	1	99	171552	0	KED
	Cu	**65**	**40.952**	ug/L	0.155	0	53	86666	1	KED
	Zn	**66**	**112.924**	ug/L	2.371	2	300	69079	0	KED
	Zn	**67**	**108.682**	ug/L	2.985	2	50	10940	2	KED
	As	**75**	**32.191**	ug/L	0.604	1	4	9434	0	KED
	Se	**78**	**73.196**	ug/L	2.090	2	11	2396	1	KED
	Y	**89**		ug/L			893628	1045930	0	Standard
	Kr	**83**		ug/L			62	148	9	Standard
>	**In-1**	**115**		ug/L			27117	23809	1	KED
	Cd	**111**	**24.685**	ug/L	0.040	0	3	8083	1	KED
	Cd	**114**	**24.865**	ug/L	0.046	0	3	21041	1	KED
>	**In**	**115**		ug/L			1764814	1670875	0	Standard
	Ag	**107**	**23.407**	ug/L	0.428	1	70	543379	0	Standard
	Sb	**121**	**0.028**	ug/L	0.002	5	359	1026	2	Standard
	Sb	**123**	**0.030**	ug/L	0.003	9	300	816	6	Standard
	Ba	**135**	**46.802**	ug/L	0.538	1	33	306686	0	Standard
	Ba	**137**	**47.089**	ug/L	0.484	1	55	517161	0	Standard
>	**Tb**	**159**		ug/L			2798401	2958334	0	Standard
	Tl	**205**	**24.742**	ug/L	0.095	0	80	2344515	0	Standard
	Pb	**208**	**31.890**	ug/L	0.372	1	353	4078673	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:01:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1174653	1086379	1	Standard
	Be	**9**	**-0.000**	ug/L	0.001	2459	13	12	56	Standard
	C	**13**		ug/L			30879	31210	0	Standard
	Cl	**37**		ug/L			8137590	8066381	1	Standard
>	**Sc**	**45**		ug/L			1506324	1347491	0	Standard
	V	**51**	**0.001**	ug/L	0.005	716	7630	6845	2	Standard
	V-1	**51**	**-0.001**	ug/L	0.000	11	137	92	4	Standard
	Cr	**52**	**0.007**	ug/L	0.021	297	22519	20310	2	Standard
	Cr	**53**	**0.001**	ug/L	0.005	496	148	135	9	Standard
	Mn	**55**	**0.025**	ug/L	0.002	8	1780	2488	2	Standard
>	**Ge**	**72**		ug/L			97794	90476	0	KED
	Ni	**60**	**-0.004**	ug/L	0.003	68	15	8	44	KED
	Ni	**62**	**0.035**	ug/L	0.012	34	2	10	26	KED
	Cu	**63**	**0.007**	ug/L	0.005	81	99	120	19	KED
	Cu	**65**	**0.007**	ug/L	0.003	48	53	64	11	KED
	Zn	**66**	**-0.313**	ug/L	0.027	8	300	83	20	KED
	Zn	**67**	**-0.298**	ug/L	0.075	25	50	15	48	KED
	As	**75**	**0.002**	ug/L	0.002	86	4	4	12	KED
	Se	**78**	**0.076**	ug/L	0.084	111	11	12	21	KED
	Y	**89**		ug/L			893628	823141	0	Standard
	Kr	**83**		ug/L			62	62	6	Standard
>	**In-1**	**115**		ug/L			27117	24252	0	KED
	Cd	**111**	**0.009**	ug/L	0.005	56	3	5	28	KED
	Cd	**114**	**0.006**	ug/L	0.001	22	3	8	12	KED
>	**In**	**115**		ug/L			1764814	1656701	0	Standard
	Ag	**107**	**0.001**	ug/L	0.000	20	70	99	6	Standard
	Sb	**121**	**-0.009**	ug/L	0.001	6	359	116	12	Standard
	Sb	**123**	**-0.011**	ug/L	0.001	11	300	95	23	Standard
	Ba	**135**	**0.003**	ug/L	0.002	57	33	49	21	Standard
	Ba	**137**	**0.001**	ug/L	0.000	13	55	66	3	Standard
>	**Tb**	**159**		ug/L			2798401	2808498	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	3	80	245	1	Standard
	Pb	**208**	**0.006**	ug/L	0.000	4	353	1123	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:06:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1091137	3	Standard
⌊	**Be**	**9**	**49.951**	ug/L	1.876	3	13	272834	0	Standard
	C	**13**		ug/L			30879	30411	1	Standard
	Cl	**37**		ug/L			8137590	8450067	0	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1340349	1	Standard
|	**V**	**51**	**48.849**	ug/L	0.655	1	7630	1362653	0	Standard
|	**V-1**	**51**	**49.566**	ug/L	0.695	1	137	1372787	0	Standard
|	**Cr**	**52**	**49.311**	ug/L	0.730	1	22519	1177745	0	Standard
|	**Cr**	**53**	**51.724**	ug/L	0.877	1	148	136326	0	Standard
⌊	**Mn**	**55**	**50.574**	ug/L	0.847	1	1780	1839077	0	Standard
⌈>	**Ge**	**72**		ug/L			97794	87893	1	KED
|	**Ni**	**60**	**51.970**	ug/L	1.339	2	15	74493	1	KED
|	**Ni**	**62**	**51.145**	ug/L	1.177	2	2	11999	1	KED
|	**Cu**	**63**	**52.629**	ug/L	1.125	2	99	219400	0	KED
|	**Cu**	**65**	**52.373**	ug/L	0.831	1	53	110124	0	KED
|	**Zn**	**66**	**52.250**	ug/L	1.277	2	300	31910	0	KED
|	**Zn**	**67**	**51.431**	ug/L	1.284	2	50	5168	1	KED
|	**As**	**75**	**51.114**	ug/L	0.877	1	4	14886	1	KED
⌊	**Se**	**78**	**50.747**	ug/L	1.074	2	11	1654	1	KED
	Y	**89**		ug/L			893628	832278	1	Standard
	Kr	**83**		ug/L			62	57	18	Standard
⌈>	**In-1**	**115**		ug/L			27117	23529	0	KED
|	**Cd**	**111**	**52.088**	ug/L	1.103	2	3	16854	2	KED
⌊	**Cd**	**114**	**51.519**	ug/L	0.652	1	3	43085	1	KED
⌈>	**In**	**115**		ug/L			1764814	1604446	0	Standard
|	**Ag**	**107**	**48.571**	ug/L	0.994	2	70	1082890	2	Standard
|	**Sb**	**121**	**47.797**	ug/L	0.663	1	359	1133591	0	Standard
|	**Sb**	**123**	**50.032**	ug/L	0.451	0	300	859321	0	Standard
|	**Ba**	**135**	**48.254**	ug/L	0.338	0	33	303648	1	Standard
⌊	**Ba**	**137**	**48.675**	ug/L	0.290	0	55	513355	1	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2843063	1	Standard
|	**Tl**	**205**	**51.934**	ug/L	0.549	1	80	4729144	0	Standard
⌊	**Pb**	**208**	**48.406**	ug/L	0.429	0	353	5949628	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:13:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1174653	1123194	4	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	70	13	6	68	Standard
	C	**13**		ug/L			30879	30804	1	Standard
	Cl	**37**		ug/L			8137590	8168404	1	Standard
⌈>	**Sc**	**45**		ug/L			1506324	1349205	0	Standard
|	**V**	**51**	**0.022**	ug/L	0.004	16	7630	7436	0	Standard
|	**V-1**	**51**	**-0.001**	ug/L	0.000	7	137	100	2	Standard
|	**Cr**	**52**	**0.067**	ug/L	0.014	20	22519	21756	0	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.002	23	148	112	3	Standard
⌊	**Mn**	**55**	**0.016**	ug/L	0.002	9	1780	2179	2	Standard
⌈>	**Ge**	**72**		ug/L			97794	89622	0	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.004	471	15	13	42	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.000	3	2	1		KED
|	**Cu**	**63**	**0.009**	ug/L	0.003	32	99	130	10	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	47	53	59	8	KED
|	**Zn**	**66**	**-0.129**	ug/L	0.032	24	300	196	9	KED
|	**Zn**	**67**	**-0.159**	ug/L	0.019	12	50	29	7	KED
|	**As**	**75**	**-0.001**	ug/L	0.009	862	4	3	75	KED
⌊	**Se**	**78**	**0.105**	ug/L	0.028	26	11	13	6	KED
	Y	**89**		ug/L			893628	815351	1	Standard
	Kr	**83**		ug/L			62	62	20	Standard
⌈>	**In-1**	**115**		ug/L			27117	24208	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	187	3	2	49	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	266	3	2	94	KED
⌈>	**In**	**115**		ug/L			1764814	1638821	2	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	47	70	119	19	Standard
|	**Sb**	**121**	**0.026**	ug/L	0.002	6	359	953	4	Standard
|	**Sb**	**123**	**0.027**	ug/L	0.001	3	300	753	3	Standard
|	**Ba**	**135**	**0.039**	ug/L	0.005	13	33	280	12	Standard
⌊	**Ba**	**137**	**0.037**	ug/L	0.002	4	55	447	5	Standard
⌈>	**Tb**	**159**		ug/L			2798401	2775243	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	12	80	211	7	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	21	353	606	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:18:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L				1084314	2	Standard
	Be	**9**		ug/L				13	62	Standard
	C	**13**		ug/L				30481	1	Standard
	Cl	**37**		ug/L				8086439	1	Standard
>	**Sc**	**45**		ug/L				1349683	0	Standard
	V	**51**		ug/L				7438	0	Standard
	V-1	**51**		ug/L				90	13	Standard
	Cr	**52**		ug/L				21824	0	Standard
	Cr	**53**		ug/L				116	3	Standard
	Mn	**55**		ug/L				1991	1	Standard
>	**Ge**	**72**		ug/L				89878	1	KED
	Ni	**60**		ug/L				14	54	KED
	Ni	**62**		ug/L				6	62	KED
	Cu	**63**		ug/L				115	3	KED
	Cu	**65**		ug/L				62	26	KED
	Zn	**66**		ug/L				209	5	KED
	Zn	**67**		ug/L				35	13	KED
	As	**75**		ug/L				3	0	KED
	Se	**78**		ug/L				12	17	KED
	Y	**89**		ug/L				830650	2	Standard
	Kr	**83**		ug/L				62	12	Standard
>	**In-1**	**115**		ug/L				23226	1	KED
	Cd	**111**		ug/L				3	41	KED
	Cd	**114**		ug/L				2	45	KED
>	**In**	**115**		ug/L				1635078	0	Standard
	Ag	**107**		ug/L				87	18	Standard
	Sb	**121**		ug/L				387	4	Standard
	Sb	**123**		ug/L				284	7	Standard
	Ba	**135**		ug/L				264	4	Standard
	Ba	**137**		ug/L				443	3	Standard
>	**Tb**	**159**		ug/L				2771891	0	Standard
	Tl	**205**		ug/L				116	16	Standard
	Pb	**208**		ug/L				532	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:23:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1103282	3	Standard
	Be	**9**	**49.746**	ug/L	1.272	2	13	274847	1	Standard
	C	**13**		ug/L			30481	30546	0	Standard
	Cl	**37**		ug/L			8086439	8397681	0	Standard
>	**Sc**	**45**		ug/L			1349683	1332840	1	Standard
	V	**51**	**48.903**	ug/L	0.864	1	7438	1357055	0	Standard
	V-1	**51**	**49.658**	ug/L	0.621	1	90	1367647	0	Standard
	Cr	**52**	**49.595**	ug/L	0.725	1	21824	1179389	0	Standard
	Cr	**53**	**52.140**	ug/L	0.432	0	116	136658	1	Standard
	Mn	**55**	**51.143**	ug/L	0.437	0	1991	1849865	0	Standard
>	**Ge**	**72**		ug/L			89878	88874	1	KED
	Ni	**60**	**51.071**	ug/L	1.028	2	14	74031	1	KED
	Ni	**62**	**50.241**	ug/L	0.106	0	6	11926	1	KED
	Cu	**63**	**51.965**	ug/L	0.328	0	115	219110	0	KED
	Cu	**65**	**51.642**	ug/L	0.509	0	62	109824	0	KED
	Zn	**66**	**51.622**	ug/L	0.856	1	209	31820	1	KED
	Zn	**67**	**51.809**	ug/L	0.655	1	35	5254	1	KED
	As	**75**	**50.325**	ug/L	0.657	1	3	14820	0	KED
	Se	**78**	**49.550**	ug/L	1.078	2	12	1636	1	KED
	Y	**89**		ug/L			830650	816021	1	Standard
	Kr	**83**		ug/L			62	69	11	Standard
>	**In-1**	**115**		ug/L			23226	23189	0	KED
	Cd	**111**	**52.478**	ug/L	0.262	0	3	16735	0	KED
	Cd	**114**	**52.333**	ug/L	0.416	0	2	43129	0	KED
>	**In**	**115**		ug/L			1635078	1623645	1	Standard
	Ag	**107**	**47.961**	ug/L	0.245	0	87	1081929	1	Standard
	Sb	**121**	**47.242**	ug/L	1.028	2	387	1133707	0	Standard
	Sb	**123**	**49.613**	ug/L	1.232	2	284	862098	0	Standard
	Ba	**135**	**47.625**	ug/L	0.957	2	264	303433	0	Standard
	Ba	**137**	**47.860**	ug/L	0.779	1	443	511100	1	Standard
>	**Tb**	**159**		ug/L			2771891	2820753	0	Standard
	Tl	**205**	**52.064**	ug/L	0.286	0	116	4703902	0	Standard
	Pb	**208**	**48.494**	ug/L	0.319	0	532	5914279	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:31:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1088981	1	Standard
	Be	**9**	**0.001**	ug/L	0.001	159	13	16	29	Standard
	C	**13**		ug/L			30481	30849	1	Standard
	Cl	**37**		ug/L			8086439	8201569	0	Standard
>	**Sc**	**45**		ug/L			1349683	1333775	2	Standard
	V	**51**	**0.001**	ug/L	0.002	253	7438	7370	2	Standard
	V-1	**51**	**-0.000**	ug/L	0.000	130	90	87	3	Standard
	Cr	**52**	**0.004**	ug/L	0.007	151	21824	21667	1	Standard
	Cr	**53**	**0.002**	ug/L	0.003	162	116	119	4	Standard
	Mn	**55**	**-0.006**	ug/L	0.002	32	1991	1762	1	Standard
>	**Ge**	**72**		ug/L			89878	89901	0	KED
	Ni	**60**	**0.002**	ug/L	0.000	4	14	17	0	KED
	Ni	**62**	**0.011**	ug/L	0.008	75	6	9	20	KED
	Cu	**63**	**0.002**	ug/L	0.005	280	115	122	16	KED
	Cu	**65**	**0.000**	ug/L	0.006	2173	62	62	21	KED
	Zn	**66**	**0.003**	ug/L	0.023	775	209	211	6	KED
	Zn	**67**	**-0.056**	ug/L	0.044	78	35	29	14	KED
	As	**75**	**0.003**	ug/L	0.003	124	3	4	21	KED
	Se	**78**	**0.094**	ug/L	0.031	32	12	15	6	KED
	Y	**89**		ug/L			830650	818694	3	Standard
	Kr	**83**		ug/L			62	57	21	Standard
>	**In-1**	**115**		ug/L			23226	23876	2	KED
	Cd	**111**	**-0.003**	ug/L	0.006	179	3	2	78	KED
	Cd	**114**	**0.001**	ug/L	0.002	166	2	3	52	KED
>	**In**	**115**		ug/L			1635078	1635433	0	Standard
	Ag	**107**	**0.001**	ug/L	0.000	30	87	121	9	Standard
	Sb	**121**	**0.030**	ug/L	0.001	3	387	1110	2	Standard
	Sb	**123**	**0.034**	ug/L	0.002	4	284	887	3	Standard
	Ba	**135**	**0.005**	ug/L	0.003	64	264	293	7	Standard
	Ba	**137**	**0.003**	ug/L	0.002	72	443	477	5	Standard
>	**Tb**	**159**		ug/L			2771891	2766759	0	Standard
	Tl	**205**	**0.000**	ug/L	0.000	52	116	151	12	Standard
	Pb	**208**	**0.001**	ug/L	0.001	82	532	610	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:36:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1106301	2	Standard
	Be	**9**	**0.001**	ug/L	0.002	335	13	17	69	Standard
	C	**13**		ug/L			30481	48083	1	Standard
	Cl	**37**		ug/L			8086439	8307384	0	Standard
>	**Sc**	**45**		ug/L			1349683	1352166	0	Standard
	V	**51**	**0.210**	ug/L	0.001	0	7438	13327	0	Standard
	V-1	**51**	**0.228**	ug/L	0.003	1	90	6447	0	Standard
		52		ug/L	0.010	1	21824	34599	0	Standard
	Cr	**53**	**0.600**	ug/L	0.021	3	116	1709	2	Standard
	Mn	**55**	**18.597**	ug/L	0.218	1	1991	683723	0	Standard
>	**Ge**	**72**		ug/L			89878	90348	0	KED
	Ni	**60**	**0.613**	ug/L	0.020	3	14	917	2	KED
	Ni	**62**	**0.655**	ug/L	0.041	6	6	165	5	KED
		63		ug/L	0.137	1	115	51351	1	KED
	Cu	**65**	**11.911**	ug/L	0.188	1	62	25797	1	KED
	Zn	**66**	**112.490**	ug/L	0.766	0	209	70246	0	KED
				ug/L	2.539	2	35	10855	1	KED
		75		ug/L	0.006	6	3	32	6	KED
	Se	**78**	**0.031**	ug/L	0.123	399	12	13	30	KED
	Y	**89**		ug/L			830650	814091	2	Standard
	Kr	**83**		ug/L			62	60	4	Standard
>	**In-1**	**115**		ug/L			23226	23750	1	KED
	Cd	**111**	**0.042**	ug/L	0.013	31	3	17	26	KED
	Cd	**114**	**0.044**	ug/L	0.008	18	2	39	19	KED
>	**In**	**115**		ug/L			1635078	1645654	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	92	87	113	20	Standard
	Sb	**121**	**0.458**	ug/L	0.010	2	387	11532	1	Standard
	Sb	**123**	**0.482**	ug/L	0.005	1	284	8772	1	Standard
	Ba	**135**	**4.673**	ug/L	0.092	1	264	30423	1	Standard
	Ba	**137**	**4.635**	ug/L	0.110	2	443	50574	1	Standard
>	**Tb**	**159**		ug/L			2771891	2799997	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	8	116	269	4	Standard
		208		ug/L	0.003	2	532	18588	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:41:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1086524	3	Standard
	Be	**9**	**0.003**	ug/L	0.002	61	13	31	36	Standard
	C	**13**		ug/L			30481	85812	0	Standard
	Cl	**37**		ug/L			8086439	8603212	0	Standard
>	**Sc**	**45**		ug/L			1349683	1364907	1	Standard
	V	**51**	**0.393**	ug/L	0.011	2	7438	18628	0	Standard
	V-1	**51**	**0.789**	ug/L	0.007	0	90	22332	0	Standard
		52		ug/L	0.019	3	21824	36812	0	Standard
	Cr	**53**	**1.949**	ug/L	0.018	0	116	5344	1	Standard
	Mn	**55**	**22.900**	ug/L	0.388	1	1991	849247	0	Standard
>	**Ge**	**72**		ug/L			89878	90217	0	KED
	Ni	**60**	**0.560**	ug/L	0.021	3	14	838	4	KED
	Ni	**62**	**0.548**	ug/L	0.065	11	6	139	11	KED
		63		ug/L	0.028	0	115	29675	0	KED
	Cu	**65**	**6.791**	ug/L	0.040	0	62	14716	0	KED
		66		ug/L	1.025	1	209	40350	1	KED
	Zn	**67**	**62.655**	ug/L	0.958	1	35	6443	0	KED
		75		ug/L	0.018	11	3	51	10	KED
	Se	**78**	**0.021**	ug/L	0.042	200	12	13	10	KED
	Y	**89**		ug/L			830650	829934	1	Standard
	Kr	**83**		ug/L			62	46	32	Standard
>	**In-1**	**115**		ug/L			23226	23527	1	KED
	Cd	**111**	**0.086**	ug/L	0.009	9	3	31	8	KED
	Cd	**114**	**0.102**	ug/L	0.022	21	2	87	19	KED
>	**In**	**115**		ug/L			1635078	1642499	0	Standard
	Ag	**107**	**0.001**	ug/L	0.000	16	87	118	4	Standard
	Sb	**121**	**0.677**	ug/L	0.004	0	387	16832	1	Standard
	Sb	**123**	**0.713**	ug/L	0.006	0	284	12825	1	Standard
	Ba	**135**	**9.687**	ug/L	0.084	0	264	62657	0	Standard
	Ba	**137**	**9.676**	ug/L	0.149	1	443	104900	1	Standard
>	**Tb**	**159**		ug/L			2771891	2797427	0	Standard
	Tl	**205**	**0.003**	ug/L	0.000	16	116	369	11	Standard
		208		ug/L	0.003	2	532	18350	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:46:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1097954	3	Standard
	Be	**9**	**0.004**	ug/L	0.001	18	13	33	14	Standard
	C	**13**		ug/L			30481	53557	1	Standard
	Cl	**37**		ug/L			8086439	8114446	0	Standard
>	**Sc**	**45**		ug/L			1349683	1392401	0	Standard
	V	**51**	**0.370**	ug/L	0.015	4	7438	18343	1	Standard
	V-1	**51**	**0.443**	ug/L	0.008	1	90	12829	0	Standard
		52		ug/L	0.031	6	21824	34756	1	Standard
	Cr	**53**	**0.747**	ug/L	0.014	1	116	2164	1	Standard
	Mn	**55**	**216.900**	ug/L	3.944	1	1991	8188953	0	Standard
>	**Ge**	**72**		ug/L			89878	89684	0	KED
	Ni	**60**	**0.479**	ug/L	0.028	5	14	715	5	KED
	Ni	**62**	**0.424**	ug/L	0.034	8	6	108	7	KED
		63		ug/L	0.043	1	115	16758	1	KED
	Cu	**65**	**3.886**	ug/L	0.028	0	62	8396	0	KED
		66		ug/L	0.262	0	209	22238	0	KED
	Zn	**67**	**34.202**	ug/L	0.450	1	35	3512	1	KED
		75		ug/L	0.019	4	3	123	4	KED
	Se	**78**	**-0.072**	ug/L	0.074	102	12	10	24	KED
	Y	**89**		ug/L			830650	835247	1	Standard
	Kr	**83**		ug/L			62	94	17	Standard
>	**In-1**	**115**		ug/L			23226	23829	1	KED
	Cd	**111**	**0.020**	ug/L	0.006	31	3	10	19	KED
	Cd	**114**	**0.033**	ug/L	0.006	17	2	30	15	KED
>	**In**	**115**		ug/L			1635078	1652486	0	Standard
	Ag	**107**	**0.002**	ug/L	0.000	16	87	141	6	Standard
	Sb	**121**	**1.155**	ug/L	0.024	2	387	28591	1	Standard
	Sb	**123**	**1.207**	ug/L	0.010	0	284	21627	0	Standard
	Ba	**135**	**13.218**	ug/L	0.079	0	264	85921	0	Standard
	Ba	**137**	**13.049**	ug/L	0.057	0	443	142178	1	Standard
>	**Tb**	**159**		ug/L			2771891	2842736	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	31	116	238	16	Standard
		208		ug/L	0.002	1	532	21243	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:51:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1101024	1	Standard
	Be	**9**	**0.002**	ug/L	0.001	37	13	23	16	Standard
	C	**13**		ug/L			30481	134093	0	Standard
	Cl	**37**		ug/L			8086439	9166993	0	Standard
>	**Sc**	**45**		ug/L			1349683	1400137	0	Standard
	V	**51**	**0.381**	ug/L	0.016	4	7438	18774	3	Standard
	V-1	**51**	**1.247**	ug/L	0.013	1	90	36183	1	Standard
		52		ug/L	0.012	2	21824	36534	0	Standard
	Cr	**53**	**3.481**	ug/L	0.051	1	116	9695	0	Standard
	Mn	**55**	**194.691**	ug/L	0.445	0	1991	7392318	0	Standard
>	**Ge**	**72**		ug/L			89878	91676	0	KED
	Ni	**60**	**0.450**	ug/L	0.024	5	14	687	4	KED
	Ni	**62**	**0.485**	ug/L	0.037	7	6	125	6	KED
		63		ug/L	0.039	1	115	15190	0	KED
	Cu	**65**	**3.455**	ug/L	0.055	1	62	7640	2	KED
		66		ug/L	0.295	1	209	15028	1	KED
	Zn	**67**	**22.329**	ug/L	0.633	2	35	2357	3	KED
		75		ug/L	0.001	0	3	159	0	KED
	Se	**78**	**0.031**	ug/L	0.131	423	12	13	31	KED
	Y	**89**		ug/L			830650	842131	2	Standard
	Kr	**83**		ug/L			62	107	11	Standard
>	**In-1**	**115**		ug/L			23226	23806	1	KED
	Cd	**111**	**0.005**	ug/L	0.009	202	3	5	60	KED
	Cd	**114**	**0.026**	ug/L	0.006	24	2	24	23	KED
>	**In**	**115**		ug/L			1635078	1679203	1	Standard
	Ag	**107**	**0.001**	ug/L	0.001	87	87	116	19	Standard
	Sb	**121**	**0.640**	ug/L	0.014	2	387	16281	1	Standard
	Sb	**123**	**0.672**	ug/L	0.011	1	284	12374	0	Standard
	Ba	**135**	**8.765**	ug/L	0.155	1	264	57988	1	Standard
	Ba	**137**	**8.711**	ug/L	0.085	0	443	96586	0	Standard
>	**Tb**	**159**		ug/L			2771891	2847960	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	24	116	265	12	Standard
		208		ug/L	0.000	0	532	12704	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 03:56:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1116714	1	Standard
	Be	**9**	**0.011**	ug/L	0.001	11	13	73	9	Standard
	C	**13**		ug/L			30481	104264	0	Standard
	Cl	**37**		ug/L			8086439	8391127	1	Standard
>	**Sc**	**45**		ug/L			1349683	1386559	0	Standard
	V	**51**	**1.050**	ug/L	0.030	2	7438	37802	2	Standard
	V-1	**51**	**1.457**	ug/L	0.018	1	90	41841	1	Standard
		52		ug/L	0.014	1	21824	52288	1	Standard
	Cr	**53**	**2.599**	ug/L	0.043	1	116	7200	2	Standard
	Mn	**55**	**5.596**	ug/L	0.038	0	1991	212395	1	Standard
>	**Ge**	**72**		ug/L			89878	92084	0	KED
	Ni	**60**	**0.505**	ug/L	0.007	1	14	773	1	KED
	Ni	**62**	**0.487**	ug/L	0.082	16	6	126	16	KED
		63		ug/L	0.097	1	115	25778	1	KED
	Cu	**65**	**5.902**	ug/L	0.063	1	62	13062	0	KED
		66		ug/L	0.516	0	209	34168	0	KED
	Zn	**67**	**50.244**	ug/L	0.909	1	35	5281	1	KED
		75		ug/L	0.019	10	3	58	9	KED
	Se	**78**	**0.041**	ug/L	0.049	118	12	14	11	KED
	Y	**89**		ug/L			830650	852203	0	Standard
	Kr	**83**		ug/L			62	52	18	Standard
>	**In-1**	**115**		ug/L			23226	23692	3	KED
	Cd	**111**	**0.036**	ug/L	0.005	14	3	15	12	KED
	Cd	**114**	**0.052**	ug/L	0.013	25	2	45	24	KED
>	**In**	**115**		ug/L			1635078	1662321	1	Standard
	Ag	**107**	**0.004**	ug/L	0.001	27	87	180	13	Standard
	Sb	**121**	**0.314**	ug/L	0.014	4	387	8114	2	Standard
	Sb	**123**	**0.326**	ug/L	0.007	2	284	6079	1	Standard
	Ba	**135**	**6.150**	ug/L	0.030	0	264	40357	0	Standard
	Ba	**137**	**6.156**	ug/L	0.067	1	443	67705	0	Standard
>	**Tb**	**159**		ug/L			2771891	2863416	1	Standard
	Tl	**205**	**0.002**	ug/L	0.001	21	116	341	12	Standard
		208		ug/L	0.003	1	532	23763	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:01:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1104972	1	Standard
	Be	**9**	**0.002**	ug/L	0.002	84	13	24	35	Standard
	C	**13**		ug/L			30481	57655	0	Standard
	Cl	**37**		ug/L			8086439	8022445	0	Standard
>	**Sc**	**45**		ug/L			1349683	1376341	1	Standard
	V	**51**	**0.486**	ug/L	0.012	2	7438	21429	0	Standard
	V-1	**51**	**0.512**	ug/L	0.009	1	90	14646	0	Standard
		52		ug/L	0.009	1	21824	35509	1	Standard
	Cr	**53**	**0.638**	ug/L	0.022	3	116	1843	3	Standard
	Mn	**55**	**16.421**	ug/L	0.065	0	1991	614723	1	Standard
>	**Ge**	**72**		ug/L			89878	90715	0	KED
	Ni	**60**	**1.023**	ug/L	0.065	6	14	1528	6	KED
	Ni	**62**	**1.232**	ug/L	0.060	4	6	305	4	KED
		63		ug/L	0.928	0	115	529544	0	KED
	Cu	**65**	**122.702**	ug/L	0.850	0	62	266273	0	KED
	Zn	**66**	**167.127**	ug/L	1.424	0	209	104688	0	KED
				ug/L	2.633	1	35	15783	1	KED
		75		ug/L	0.009	9	3	33	7	KED
	Se	**78**	**0.064**	ug/L	0.100	155	12	14	22	KED
	Y	**89**		ug/L			830650	843176	0	Standard
	Kr	**83**		ug/L			62	45	23	Standard
>	**In-1**	**115**		ug/L			23226	24121	1	KED
	Cd	**111**	**0.034**	ug/L	0.013	37	3	14	28	KED
	Cd	**114**	**0.026**	ug/L	0.004	16	2	24	14	KED
>	**In**	**115**		ug/L			1635078	1664687	0	Standard
	Ag	**107**	**0.005**	ug/L	0.001	19	87	210	11	Standard
	Sb	**121**	**0.146**	ug/L	0.003	2	387	3981	2	Standard
	Sb	**123**	**0.156**	ug/L	0.003	1	284	3069	2	Standard
	Ba	**135**	**3.647**	ug/L	0.077	2	264	24078	1	Standard
	Ba	**137**	**3.641**	ug/L	0.058	1	443	40289	1	Standard
>	**Tb**	**159**		ug/L			2771891	2833907	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	33	116	195	12	Standard
		208		ug/L	0.018	1	532	163858	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:06:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1095060	2	Standard
	Be	**9**	**0.005**	ug/L	0.001	26	13	41	19	Standard
	C	**13**		ug/L			30481	63577	0	Standard
	Cl	**37**		ug/L			8086439	7715978	1	Standard
>	**Sc**	**45**		ug/L			1349683	1392732	0	Standard
	V	**51**	**1.021**	ug/L	0.019	1	7438	37115	0	Standard
	V-1	**51**	**1.062**	ug/L	0.015	1	90	30664	0	Standard
		52		ug/L	0.034	3	21824	44397	1	Standard
	Cr	**53**	**1.036**	ug/L	0.018	1	116	2953	1	Standard
	Mn	**55**	**38.024**	ug/L	0.545	1	1991	1437646	0	Standard
>	**Ge**	**72**		ug/L			89878	90411	1	KED
	Ni	**60**	**1.258**	ug/L	0.004	0	14	1869	1	KED
	Ni	**62**	**1.308**	ug/L	0.108	8	6	322	6	KED
		63		ug/L	0.055	0	115	70983	1	KED
	Cu	**65**	**16.392**	ug/L	0.055	0	62	35506	1	KED
	Zn	**66**	**271.173**	ug/L	2.680	0	209	169150	0	KED
	Zn	**67**	**254.052**	ug/L	5.368	2	35	26070	1	KED
		75		ug/L	0.036	5	3	205	3	KED
	Se	**78**	**0.063**	ug/L	0.193	304	12	14	44	KED
	Y	**89**		ug/L			830650	846264	0	Standard
	Kr	**83**		ug/L			62	66	19	Standard
>	**In-1**	**115**		ug/L			23226	24219	0	KED
	Cd	**111**	**3.179**	ug/L	0.031	0	3	1062	0	KED
	Cd	**114**	**3.086**	ug/L	0.074	2	2	2658	2	KED
>	**In**	**115**		ug/L			1635078	1632712	1	Standard
	Ag	**107**	**0.012**	ug/L	0.001	6	87	356	5	Standard
	Sb	**121**	**0.271**	ug/L	0.005	1	387	6917	0	Standard
	Sb	**123**	**0.288**	ug/L	0.012	4	284	5317	3	Standard
	Ba	**135**	**20.762**	ug/L	0.121	0	264	133205	1	Standard
	Ba	**137**	**20.669**	ug/L	0.151	0	443	222229	0	Standard
>	**Tb**	**159**		ug/L			2771891	2821551	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	4	116	290	2	Standard
		208		ug/L	0.037	1	532	309071	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:11:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1138838	2	Standard
	Be	**9**	**0.006**	ug/L	0.002	41	13	46	27	Standard
	C	**13**		ug/L			30481	52150	1	Standard
	Cl	**37**		ug/L			8086439	7865831	0	Standard
>	**Sc**	**45**		ug/L			1349683	1403792	0	Standard
	V	**51**	**1.500**	ug/L	0.003	0	7438	51348	0	Standard
	V-1	**51**	**1.527**	ug/L	0.007	0	90	44402	0	Standard
		52		ug/L	0.013	2	21824	35902	1	Standard
	Cr	**53**	**0.622**	ug/L	0.011	1	116	1835	1	Standard
	Mn	**55**	**9.474**	ug/L	0.042	0	1991	362632	0	Standard
>	**Ge**	**72**		ug/L			89878	90320	0	KED
	Ni	**60**	**1.111**	ug/L	0.053	4	14	1651	5	KED
	Ni	**62**	**1.153**	ug/L	0.026	2	6	285	2	KED
		63		ug/L	0.088	2	115	15309	1	KED
	Cu	**65**	**3.536**	ug/L	0.020	0	62	7701	0	KED
		66		ug/L	1.108	2	209	28577	1	KED
	Zn	**67**	**43.770**	ug/L	0.924	2	35	4516	1	KED
		75		ug/L	0.011	6	3	56	6	KED
	Se	**78**	**0.050**	ug/L	0.027	54	12	14	6	KED
	Y	**89**		ug/L			830650	853929	1	Standard
	Kr	**83**		ug/L			62	53	14	Standard
>	**In-1**	**115**		ug/L			23226	23862	1	KED
	Cd	**111**	**0.030**	ug/L	0.005	17	3	13	12	KED
	Cd	**114**	**0.038**	ug/L	0.021	54	2	34	52	KED
>	**In**	**115**		ug/L			1635078	1683147	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	67	87	114	14	Standard
	Sb	**121**	**0.121**	ug/L	0.006	4	387	3420	3	Standard
	Sb	**123**	**0.119**	ug/L	0.003	2	284	2434	1	Standard
	Ba	**135**	**10.107**	ug/L	0.155	1	264	66976	0	Standard
	Ba	**137**	**10.064**	ug/L	0.223	2	443	111775	1	Standard
>	**Tb**	**159**		ug/L			2771891	2855083	1	Standard
	Tl	**205**	**0.001**	ug/L	0.000	11	116	233	6	Standard
		208		ug/L	0.010	1	532	96237	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:17:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1096473	2	Standard
	Be	**9**	**0.000**	ug/L	0.001	637	13	14	49	Standard
	C	**13**		ug/L			30481	49246	2	Standard
	Cl	**37**		ug/L			8086439	7918849	0	Standard
>	**Sc**	**45**		ug/L			1349683	1370133	1	Standard
	V	**51**	**0.389**	ug/L	0.010	2	7438	18585	0	Standard
	V-1	**51**	**0.398**	ug/L	0.003	0	90	11349	1	Standard
		52		ug/L	0.021	3	21824	36508	1	Standard
	Cr	**53**	**0.629**	ug/L	0.017	2	116	1811	4	Standard
	Mn	**55**	**130.306**	ug/L	1.365	1	1991	4842080	1	Standard
>	**Ge**	**72**		ug/L			89878	88699	1	KED
	Ni	**60**	**2.091**	ug/L	0.057	2	14	3039	3	KED
	Ni	**62**	**2.118**	ug/L	0.233	11	6	507	9	KED
		63		ug/L	0.026	1	115	10748	2	KED
	Cu	**65**	**2.494**	ug/L	0.065	2	62	5350	1	KED
		66		ug/L	0.308	0	209	24165	0	KED
	Zn	**67**	**37.652**	ug/L	1.103	2	35	3820	2	KED
		75		ug/L	0.016	4	3	109	4	KED
	Se	**78**	**0.043**	ug/L	0.041	96	12	13	10	KED
	Y	**89**		ug/L			830650	828499	2	Standard
	Kr	**83**		ug/L			62	50	17	Standard
>	**In-1**	**115**		ug/L			23226	23614	1	KED
	Cd	**111**	**0.016**	ug/L	0.009	53	3	8	32	KED
	Cd	**114**	**0.011**	ug/L	0.010	92	2	11	72	KED
>	**In**	**115**		ug/L			1635078	1654488	2	Standard
	Ag	**107**	**0.003**	ug/L	0.001	25	87	158	9	Standard
	Sb	**121**	**0.051**	ug/L	0.001	2	387	1648	1	Standard
	Sb	**123**	**0.055**	ug/L	0.002	3	284	1259	3	Standard
	Ba	**135**	**5.722**	ug/L	0.150	2	264	37382	1	Standard
	Ba	**137**	**5.726**	ug/L	0.205	3	443	62677	1	Standard
>	**Tb**	**159**		ug/L			2771891	2842500	0	Standard
	Tl	**205**	**0.000**	ug/L	0.000	31	116	139	4	Standard
		208		ug/L	0.004	1	532	42012	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:23:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1102477	2	Standard
	Be	**9**	**-0.000**	ug/L	0.001	408	13	12	50	Standard
	C	**13**		ug/L			30481	31005	3	Standard
	Cl	**37**		ug/L			8086439	7797018	0	Standard
>	**Sc**	**45**		ug/L			1349683	1355876	1	Standard
	V	**51**	**0.018**	ug/L	0.009	50	7438	7971	2	Standard
	V-1	**51**	**0.005**	ug/L	0.001	11	90	219	6	Standard
	Cr	**52**	**0.057**	ug/L	0.027	47	21824	23264	1	Standard
	Cr	**53**	**0.012**	ug/L	0.004	29	116	149	7	Standard
	Mn	**55**	**-0.024**	ug/L	0.001	2	1991	1133	1	Standard
>	**Ge**	**72**		ug/L			89878	89438	0	KED
	Ni	**60**	**0.000**	ug/L	0.005	1083	14	15	50	KED
	Ni	**62**	**-0.013**	ug/L	0.008	60	6	3	50	KED
	Cu	**63**	**-0.005**	ug/L	0.002	51	115	95	10	KED
	Cu	**65**	**-0.001**	ug/L	0.000	47	62	59	1	KED
	Zn	**66**	**-0.218**	ug/L	0.019	8	209	74	15	KED
	Zn	**67**	**-0.205**	ug/L	0.039	19	35	14	27	KED
	As	**75**	**-0.005**	ug/L	0.003	58	3	2	34	KED
	Se	**78**	**-0.003**	ug/L	0.045	1316	12	12	11	KED
	Y	**89**		ug/L			830650	816002	0	Standard
	Kr	**83**		ug/L			62	59	15	Standard
>	**In-1**	**115**		ug/L			23226	23353	1	KED
	Cd	**111**	**-0.005**	ug/L	0.005	104	3	1	86	KED
	Cd	**114**	**0.001**	ug/L	0.000	10	2	3	2	KED
>	**In**	**115**		ug/L			1635078	1663480	1	Standard
	Ag	**107**	**-0.001**	ug/L	0.000	59	87	74	13	Standard
	Sb	**121**	**-0.010**	ug/L	0.001	11	387	150	19	Standard
	Sb	**123**	**-0.011**	ug/L	0.000	4	284	102	9	Standard
	Ba	**135**	**-0.033**	ug/L	0.001	3	264	53	13	Standard
	Ba	**137**	**-0.034**	ug/L	0.000	1	443	74	5	Standard
>	**Tb**	**159**		ug/L			2771891	2778712	0	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	18	116	65	14	Standard
	Pb	**208**	**0.004**	ug/L	0.000	5	532	1022	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:28:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1084314	1089559	3	Standard
⌊	**Be**	**9**	**50.161**	ug/L	1.511	3	13	273647	0	Standard
	C	**13**		ug/L			30481	30534	1	Standard
	Cl	**37**		ug/L			8086439	8494414	0	Standard
⌈>	**Sc**	**45**		ug/L			1349683	1325016	2	Standard
|	**V**	**51**	**49.018**	ug/L	0.802	1	7438	1352103	0	Standard
|	**V-1**	**51**	**49.811**	ug/L	0.851	1	90	1363574	0	Standard
|	**Cr**	**52**	**49.659**	ug/L	0.828	1	21824	1173826	0	Standard
|	**Cr**	**53**	**52.331**	ug/L	1.058	2	116	136310	0	Standard
⌊	**Mn**	**55**	**50.927**	ug/L	0.455	0	1991	1831184	1	Standard
⌈>	**Ge**	**72**		ug/L			89878	87221	1	KED
|	**Ni**	**60**	**51.300**	ug/L	1.186	2	14	72977	1	KED
|	**Ni**	**62**	**51.823**	ug/L	1.170	2	6	12070	1	KED
|	**Cu**	**63**	**52.519**	ug/L	0.591	1	115	217322	0	KED
|	**Cu**	**65**	**52.051**	ug/L	0.604	1	62	108635	1	KED
|	**Zn**	**66**	**52.660**	ug/L	1.028	1	209	31853	1	KED
|	**Zn**	**67**	**51.487**	ug/L	2.144	4	35	5124	3	KED
|	**As**	**75**	**50.854**	ug/L	0.451	0	3	14698	0	KED
⌊	**Se**	**78**	**49.639**	ug/L	0.361	0	12	1608	1	KED
	Y	**89**		ug/L			830650	819180	1	Standard
	Kr	**83**		ug/L			62	71	8	Standard
⌈>	**In-1**	**115**		ug/L			23226	22957	0	KED
|	**Cd**	**111**	**52.526**	ug/L	0.287	0	3	16583	0	KED
⌊	**Cd**	**114**	**52.407**	ug/L	0.297	0	2	42760	0	KED
⌈>	**In**	**115**		ug/L			1635078	1598524	1	Standard
|	**Ag**	**107**	**48.276**	ug/L	0.508	1	87	1072145	0	Standard
|	**Sb**	**121**	**47.728**	ug/L	0.693	1	387	1127779	0	Standard
|	**Sb**	**123**	**50.297**	ug/L	0.889	1	284	860577	0	Standard
|	**Ba**	**135**	**48.432**	ug/L	0.993	2	264	303809	0	Standard
⌊	**Ba**	**137**	**48.558**	ug/L	0.167	0	443	510605	1	Standard
⌈>	**Tb**	**159**		ug/L			2771891	2798830	1	Standard
|	**Tl**	**205**	**52.547**	ug/L	1.485	2	116	4709138	1	Standard
⌊	**Pb**	**208**	**48.764**	ug/L	0.775	1	532	5899734	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:36:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1130305	3	Standard
	Be	**9**	**-0.000**	ug/L	0.000	142	13	12	18	Standard
	C	**13**		ug/L			30481	30984	0	Standard
	Cl	**37**		ug/L			8086439	8081178	0	Standard
>	**Sc**	**45**		ug/L			1349683	1342259	1	Standard
	V	**51**	**0.006**	ug/L	0.004	76	7438	7559	1	Standard
	V-1	**51**	**0.003**	ug/L	0.001	30	90	164	12	Standard
	Cr	**52**	**0.026**	ug/L	0.017	64	21824	22320	1	Standard
	Cr	**53**	**0.016**	ug/L	0.003	17	116	157	3	Standard
	Mn	**55**	**-0.023**	ug/L	0.001	5	1991	1126	3	Standard
>	**Ge**	**72**		ug/L			89878	89106	0	KED
	Ni	**60**	**0.013**	ug/L	0.008	62	14	33	34	KED
	Ni	**62**	**0.003**	ug/L	0.016	549	6	7	50	KED
	Cu	**63**	**0.002**	ug/L	0.002	82	115	123	6	KED
	Cu	**65**	**0.001**	ug/L	0.004	267	62	64	12	KED
	Zn	**66**	**-0.122**	ug/L	0.010	7	209	132	4	KED
	Zn	**67**	**-0.154**	ug/L	0.094	61	35	19	47	KED
	As	**75**	**-0.001**	ug/L	0.006	377	3	3	49	KED
	Se	**78**	**0.060**	ug/L	0.080	132	12	14	18	KED
	Y	**89**		ug/L			830650	809964	1	Standard
	Kr	**83**		ug/L			62	46	8	Standard
>	**In-1**	**115**		ug/L			23226	24078	2	KED
	Cd	**111**	**0.130**	ug/L	0.233	180	3	47	166	KED
	Cd	**114**	**0.130**	ug/L	0.227	174	2	116	170	KED
>	**In**	**115**		ug/L			1635078	1637657	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	50	87	116	13	Standard
	Sb	**121**	**0.032**	ug/L	0.001	3	387	1156	1	Standard
	Sb	**123**	**0.032**	ug/L	0.002	6	284	846	5	Standard
	Ba	**135**	**-0.027**	ug/L	0.000	0	264	93	2	Standard
	Ba	**137**	**-0.028**	ug/L	0.002	5	443	147	10	Standard
>	**Tb**	**159**		ug/L			2771891	2770438	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	32	116	161	8	Standard
	Pb	**208**	**0.004**	ug/L	0.000	5	532	1048	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:41:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1122752	1	Standard
	Be	**9**	**0.004**	ug/L	0.001	18	13	33	11	Standard
	C	**13**		ug/L			30481	54052	1	Standard
	Cl	**37**		ug/L			8086439	7950824	0	Standard
>	**Sc**	**45**		ug/L			1349683	1383415	1	Standard
	V	**51**	**0.581**	ug/L	0.004	0	7438	24257	1	Standard
	V-1	**51**	**0.600**	ug/L	0.005	0	90	17243	1	Standard
		52		ug/L	0.011	2	21824	33080	0	Standard
	Cr	**53**	**0.506**	ug/L	0.011	2	116	1494	1	Standard
	Mn	**55**	**11.921**	ug/L	0.096	0	1991	449096	1	Standard
>	**Ge**	**72**		ug/L			89878	88481	1	KED
	Ni	**60**	**1.025**	ug/L	0.060	5	14	1493	4	KED
	Ni	**62**	**1.017**	ug/L	0.175	17	6	246	16	KED
		63		ug/L	0.100	2	115	15521	1	KED
	Cu	**65**	**3.714**	ug/L	0.036	0	62	7920	1	KED
		66		ug/L	0.559	2	209	15791	1	KED
	Zn	**67**	**23.351**	ug/L	1.735	7	35	2376	6	KED
		75		ug/L	0.034	16	3	66	14	KED
	Se	**78**	**0.017**	ug/L	0.159	908	12	12	40	KED
	Y	**89**		ug/L			830650	844126	1	Standard
	Kr	**83**		ug/L			62	58	23	Standard
>	**In-1**	**115**		ug/L			23226	23684	1	KED
		111	**0.053**	ug/L	0.026	48	3	20	40	KED
	Cd	**114**	**0.044**	ug/L	0.011	25	2	39	23	KED
>	**In**	**115**		ug/L			1635078	1669392	0	Standard
	Ag	**107**	**0.002**	ug/L	0.000	13	87	130	4	Standard
	Sb	**121**	**0.208**	ug/L	0.004	1	387	5524	1	Standard
	Sb	**123**	**0.218**	ug/L	0.006	2	284	4191	2	Standard
	Ba	**135**	**4.635**	ug/L	0.070	1	264	30610	1	Standard
	Ba	**137**	**4.645**	ug/L	0.072	1	443	51411	0	Standard
>	**Tb**	**159**		ug/L			2771891	2839031	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	9	116	244	4	Standard
		208		ug/L	0.001	3	532	5922	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:46:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1119093	4	Standard
	Be	**9**	**-0.000**	ug/L	0.002	556	13	12	71	Standard
	C	**13**		ug/L			30481	30896	0	Standard
	Cl	**37**		ug/L			8086439	7962624	0	Standard
>	**Sc**	**45**		ug/L			1349683	1360103	1	Standard
	V	**51**	**0.016**	ug/L	0.004	22	7438	7937	0	Standard
	V-1	**51**	**0.003**	ug/L	0.001	18	90	166	7	Standard
	Cr	**52**	**0.049**	ug/L	0.015	30	21824	23153	1	Standard
	Cr	**53**	**0.005**	ug/L	0.003	57	116	131	5	Standard
	Mn	**55**	**-0.026**	ug/L	0.001	3	1991	1060	2	Standard
>	**Ge**	**72**		ug/L			89878	88894	0	KED
	Ni	**60**	**0.001**	ug/L	0.003	307	14	15	27	KED
	Ni	**62**	**-0.002**	ug/L	0.019	788	6	6	69	KED
	Cu	**63**	**-0.003**	ug/L	0.005	167	115	102	19	KED
	Cu	**65**	**-0.002**	ug/L	0.005	256	62	57	16	KED
	Zn	**66**	**-0.180**	ug/L	0.022	12	209	97	13	KED
	Zn	**67**	**-0.210**	ug/L	0.061	28	35	13	43	KED
	As	**75**	**-0.001**	ug/L	0.002	197	3	3	15	KED
	Se	**78**	**-0.016**	ug/L	0.090	559	12	11	25	KED
	Y	**89**		ug/L			830650	835405	0	Standard
	Kr	**83**		ug/L			62	54	8	Standard
>	**In-1**	**115**		ug/L			23226	23590	1	KED
	Cd	**111**	**-0.001**	ug/L	0.002	135	3	3	17	KED
	Cd	**114**	**-0.002**	ug/L	0.001	87	2	1	116	KED
>	**In**	**115**		ug/L			1635078	1651212	0	Standard
	Ag	**107**	**-0.001**	ug/L	0.000	29	87	70	7	Standard
	Sb	**121**	**-0.004**	ug/L	0.000	11	387	284	4	Standard
	Sb	**123**	**-0.005**	ug/L	0.001	13	284	207	5	Standard
	Ba	**135**	**-0.033**	ug/L	0.002	5	264	50	22	Standard
	Ba	**137**	**-0.034**	ug/L	0.001	2	443	74	15	Standard
>	**Tb**	**159**		ug/L			2771891	2815293	1	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	14	116	71	10	Standard
	Pb	**208**	**0.004**	ug/L	0.000	6	532	1034	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:50:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1177726	3	Standard
	Be	**9**	**0.006**	ug/L	0.002	30	13	51	22	Standard
	C	**13**		ug/L			30481	47703	0	Standard
	Cl	**37**		ug/L			8086439	7697404	1	Standard
>	**Sc**	**45**		ug/L			1349683	1475027	0	Standard
	V	**51**	**0.873**	ug/L	0.015	1	7438	34780	0	Standard
	V-1	**51**	**0.928**	ug/L	0.013	1	90	28368	0	Standard
	Cr	**52**	**0.114**	ug/L	0.015	13	21824	26799	0	Standard
	Cr	**53**	**0.294**	ug/L	0.009	2	116	977	1	Standard
		55		ug/L	0.008	0	1991	139254	0	Standard
>	**Ge**	**72**		ug/L			89878	89030	0	KED
	Ni	**60**	**0.244**	ug/L	0.009	3	14	368	3	KED
	Ni	**62**	**0.220**	ug/L	0.054	24	6	59	21	KED
	Cu	**63**	**0.454**	ug/L	0.015	3	115	2029	2	KED
	Cu	**65**	**0.452**	ug/L	0.022	4	62	1022	3	KED
	Zn	**66**	**0.954**	ug/L	0.026	2	209	793	2	KED
	Zn	**67**	**0.745**	ug/L	0.119	16	35	110	11	KED
		75		ug/L	0.010	2	3	108	2	KED
	Se	**78**	**0.055**	ug/L	0.065	118	12	14	15	KED
	Y	**89**		ug/L			830650	856502	2	Standard
	Kr	**83**		ug/L			62	60	7	Standard
>	**In-1**	**115**		ug/L			23226	23542	0	KED
	Cd	**111**	**-0.000**	ug/L	0.003	2423	3	3	31	KED
	Cd	**114**	**0.004**	ug/L	0.007	159	2	6	94	KED
>	**In**	**115**		ug/L			1635078	1622941	0	Standard
	Ag	**107**	**0.000**	ug/L	0.001	110	87	97	12	Standard
	Sb	**121**	**0.084**	ug/L	0.003	3	387	2408	3	Standard
	Sb	**123**	**0.089**	ug/L	0.000	0	284	1832	0	Standard
	Ba	**135**	**0.485**	ug/L	0.017	3	264	3351	2	Standard
	Ba	**137**	**0.474**	ug/L	0.016	3	443	5496	2	Standard
>	**Tb**	**159**		ug/L			2771891	2812043	0	Standard
	Tl	**205**	**0.005**	ug/L	0.000	8	116	537	6	Standard
	Pb	**208**	**0.039**	ug/L	0.001	2	532	5340	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 04:55:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1158255	1	Standard
	Be	**9**	**0.007**	ug/L	0.001	14	13	55	9	Standard
	C	**13**		ug/L			30481	48069	2	Standard
	Cl	**37**		ug/L			8086439	7689572	0	Standard
>	**Sc**	**45**		ug/L			1349683	1470894	0	Standard
	V	**51**	**0.880**	ug/L	0.014	1	7438	34924	1	Standard
	V-1	**51**	**0.941**	ug/L	0.012	1	90	28713	0	Standard
	Cr	**52**	**0.072**	ug/L	0.026	36	21824	25649	2	Standard
	Cr	**53**	**0.272**	ug/L	0.030	10	116	912	8	Standard
	Mn	**55**	**3.895**	ug/L	0.063	1	1991	157497	1	Standard
>	**Ge**	**72**		ug/L			89878	88039	0	KED
	Ni	**60**	**0.277**	ug/L	0.016	5	14	412	4	KED
	Ni	**62**	**0.320**	ug/L	0.040	12	6	81	10	KED
	Cu	**63**	**0.444**	ug/L	0.010	2	115	1967	2	KED
	Cu	**65**	**0.419**	ug/L	0.024	5	62	942	5	KED
	Zn	**66**	**0.947**	ug/L	0.086	9	209	779	5	KED
	Zn	**67**	**1.051**	ug/L	0.049	4	35	139	3	KED
		75		ug/L	0.016	4	3	114	4	KED
	Se	**78**	**0.070**	ug/L	0.059	84	12	14	12	KED
	Y	**89**		ug/L			830650	851174	1	Standard
	Kr	**83**		ug/L			62	57	1	Standard
>	**In-1**	**115**		ug/L			23226	23476	1	KED
	Cd	**111**	**0.004**	ug/L	0.008	203	3	4	52	KED
	Cd	**114**	**0.010**	ug/L	0.003	25	2	11	18	KED
>	**In**	**115**		ug/L			1635078	1653169	2	Standard
	Ag	**107**	**0.000**	ug/L	0.001	23713	87	88	19	Standard
	Sb	**121**	**0.081**	ug/L	0.002	2	387	2374	0	Standard
	Sb	**123**	**0.090**	ug/L	0.002	2	284	1884	3	Standard
	Ba	**135**	**0.457**	ug/L	0.013	2	264	3227	2	Standard
	Ba	**137**	**0.475**	ug/L	0.027	5	443	5604	2	Standard
>	**Tb**	**159**		ug/L			2771891	2796133	0	Standard
	Tl	**205**	**0.005**	ug/L	0.000	8	116	533	7	Standard
	Pb	**208**	**0.039**	ug/L	0.000	1	532	5213	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:00:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1090308	2	Standard
	Be	**9**	**0.014**	ug/L	0.002	14	13	92	12	Standard
	C	**13**		ug/L			30481	51048	1	Standard
	Cl	**37**		ug/L			8086439	9012892	0	Standard
>	**Sc**	**45**		ug/L			1349683	1667703	0	Standard
	V	**51**	**1.645**	ug/L	0.024	1	7438	65996	0	Standard
	V-1	**51**	**1.963**	ug/L	0.019	0	90	67738	0	Standard
	Cr	**52**	**0.499**	ug/L	0.007	1	21824	41549	0	Standard
	Cr	**53**	**1.559**	ug/L	0.018	1	116	5252	1	Standard
	Mn	**55**	**107.892**	ug/L	0.473	0	1991	4880644	1	Standard
>	**Ge**	**72**		ug/L			89878	80033	0	KED
	Ni	**60**	**0.339**	ug/L	0.014	3	14	455	3	KED
	Ni	**62**	**0.295**	ug/L	0.050	17	6	69	15	KED
	Cu	**63**	**1.198**	ug/L	0.015	1	115	4651	1	KED
	Cu	**65**	**1.163**	ug/L	0.016	1	62	2280	1	KED
	Zn	**66**	**18.174**	ug/L	0.383	2	209	10210	2	KED
	Zn	**67**	**17.302**	ug/L	0.527	3	35	1601	2	KED
		75		ug/L	0.053	13	3	105	14	KED
	Se	**78**	**0.079**	ug/L	0.123	155	12	13	27	KED
	Y	**89**		ug/L			830650	822135	1	Standard
	Kr	**83**		ug/L			62	62	7	Standard
>	**In-1**	**115**		ug/L			23226	21280	2	KED
	Cd	**111**	**0.051**	ug/L	0.033	64	3	18	50	KED
	Cd	**114**	**0.051**	ug/L	0.009	17	2	40	14	KED
>	**In**	**115**		ug/L			1635078	1510952	0	Standard
	Ag	**107**	**0.003**	ug/L	0.001	23	87	147	10	Standard
	Sb	**121**	**0.034**	ug/L	0.001	4	387	1120	2	Standard
	Sb	**123**	**0.037**	ug/L	0.002	4	284	862	3	Standard
	Ba	**135**	**3.736**	ug/L	0.023	0	264	22378	0	Standard
	Ba	**137**	**3.685**	ug/L	0.072	1	443	36998	1	Standard
>	**Tb**	**159**		ug/L			2771891	2713764	1	Standard
	Tl	**205**	**0.001**	ug/L	0.000	5	116	217	1	Standard
	Pb	**208**	**0.079**	ug/L	0.001	1	532	9842	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:05:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1090352	3	Standard
	Be	**9**	**0.002**	ug/L	0.000	20	13	26	7	Standard
	C	**13**		ug/L			30481	49877	0	Standard
	Cl	**37**		ug/L			8086439	8101501	0	Standard
>	**Sc**	**45**		ug/L			1349683	1600966	0	Standard
	V	**51**	**0.370**	ug/L	0.014	3	7438	21099	1	Standard
	V-1	**51**	**0.612**	ug/L	0.009	1	90	20351	0	Standard
	Cr	**52**	**0.111**	ug/L	0.028	25	21824	28989	1	Standard
	Cr	**53**	**0.921**	ug/L	0.010	1	116	3036	0	Standard
	Mn	**55**	**235.557**	ug/L	1.527	0	1991	10226012	0	Standard
>	**Ge**	**72**		ug/L			89878	80447	0	KED
	Ni	**60**	**1.013**	ug/L	0.011	1	14	1341	1	KED
	Ni	**62**	**0.994**	ug/L	0.057	5	6	219	5	KED
	Cu	**63**	**0.066**	ug/L	0.014	20	115	356	14	KED
	Cu	**65**	**0.064**	ug/L	0.019	29	62	179	20	KED
	Zn	**66**	**2.268**	ug/L	0.119	5	209	1444	4	KED
	Zn	**67**	**2.352**	ug/L	0.330	14	35	246	12	KED
		75		ug/L	0.017	17	3	29	15	KED
	Se	**78**	**0.011**	ug/L	0.054	503	12	11	14	KED
	Y	**89**		ug/L			830650	823679	2	Standard
	Kr	**83**		ug/L			62	109	8	Standard
>	**In-1**	**115**		ug/L			23226	21408	1	KED
	Cd	**111**	**0.002**	ug/L	0.003	166	3	3	25	KED
	Cd	**114**	**0.008**	ug/L	0.004	44	2	8	33	KED
>	**In**	**115**		ug/L			1635078	1539713	0	Standard
	Ag	**107**	**-0.000**	ug/L	0.000	74	87	73	9	Standard
	Sb	**121**	**0.041**	ug/L	0.002	5	387	1304	4	Standard
	Sb	**123**	**0.045**	ug/L	0.002	5	284	1009	4	Standard
	Ba	**135**	**4.811**	ug/L	0.082	1	264	29300	1	Standard
	Ba	**137**	**4.778**	ug/L	0.059	1	443	48770	0	Standard
>	**Tb**	**159**		ug/L			2771891	2747078	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	244	116	107	17	Standard
	Pb	**208**	**0.250**	ug/L	0.002	0	532	30253	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:10:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1080325	2	Standard
	Be	**9**	**0.022**	ug/L	0.005	23	13	134	19	Standard
	C	**13**		ug/L			30481	51462	0	Standard
	Cl	**37**		ug/L			8086439	8132609	1	Standard
>	**Sc**	**45**		ug/L			1349683	1526482	0	Standard
	V	**51**	**1.641**	ug/L	0.028	1	7438	60278	1	Standard
	V-1	**51**	**1.910**	ug/L	0.024	1	90	60337	0	Standard
	Cr	**52**	**0.164**	ug/L	0.011	6	21824	29069	0	Standard
	Cr	**53**	**1.058**	ug/L	0.008	0	116	3303	1	Standard
	Mn	**55**	**655.610**	ug/L	5.966	0	1991	27133448	0	Standard
>	**Ge**	**72**		ug/L			89878	82507	1	KED
	Ni	**60**	**1.525**	ug/L	0.076	4	14	2065	5	KED
	Ni	**62**	**1.429**	ug/L	0.093	6	6	321	7	KED
	Cu	**63**	**1.111**	ug/L	0.047	4	115	4451	2	KED
	Cu	**65**	**1.085**	ug/L	0.029	2	62	2196	1	KED
	Zn	**66**	**1.858**	ug/L	0.128	6	209	1248	5	KED
	Zn	**67**	**1.732**	ug/L	0.296	17	35	194	15	KED
		75		ug/L	0.209	2	3	1926	1	KED
	Se	**78**	**0.260**	ug/L	0.045	17	12	19	6	KED
	Y	**89**		ug/L			830650	895640	0	Standard
	Kr	**83**		ug/L			62	102	5	Standard
>	**In-1**	**115**		ug/L			23226	22189	0	KED
	Cd	**111**	**0.025**	ug/L	0.002	7	3	11	4	KED
	Cd	**114**	**0.040**	ug/L	0.002	5	2	34	5	KED
>	**In**	**115**		ug/L			1635078	1594078	0	Standard
	Ag	**107**	**0.001**	ug/L	0.000	10	87	106	2	Standard
	Sb	**121**	**0.110**	ug/L	0.001	1	387	2969	1	Standard
	Sb	**123**	**0.116**	ug/L	0.003	2	284	2254	1	Standard
	Ba	**135**	**1.195**	ug/L	0.016	1	264	7727	0	Standard
	Ba	**137**	**1.193**	ug/L	0.021	1	443	12934	2	Standard
>	**Tb**	**159**		ug/L			2771891	2795125	0	Standard
	Tl	**205**	**0.018**	ug/L	0.000	2	116	1768	3	Standard
	Pb	**208**	**0.012**	ug/L	0.000	2	532	1974	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:16:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1093496	0	Standard
	Be	**9**	**0.003**	ug/L	0.001	27	13	31	15	Standard
	C	**13**		ug/L			30481	49963	1	Standard
	Cl	**37**		ug/L			8086439	8102382	1	Standard
>	**Sc**	**45**		ug/L			1349683	1598900	1	Standard
	V	**51**	**0.187**	ug/L	0.004	2	7438	14997	0	Standard
	V-1	**51**	**0.591**	ug/L	0.006	1	90	19629	0	Standard
	Cr	**52**	**0.066**	ug/L	0.008	11	21824	27694	1	Standard
	Cr	**53**	**1.424**	ug/L	0.024	1	116	4610	1	Standard
	Mn	**55**	**591.951**	ug/L	6.910	1	1991	25660288	1	Standard
>	**Ge**	**72**		ug/L			89878	81376	0	KED
	Ni	**60**	**1.372**	ug/L	0.045	3	14	1833	3	KED
	Ni	**62**	**1.394**	ug/L	0.206	14	6	309	15	KED
	Cu	**63**	**0.049**	ug/L	0.007	14	115	295	9	KED
	Cu	**65**	**0.045**	ug/L	0.010	21	62	143	13	KED
	Zn	**66**	**3.108**	ug/L	0.102	3	209	1932	2	KED
	Zn	**67**	**2.768**	ug/L	0.174	6	35	287	5	KED
		75		ug/L	0.012	5	3	61	5	KED
	Se	**78**	**0.112**	ug/L	0.050	44	12	14	10	KED
	Y	**89**		ug/L			830650	824105	1	Standard
	Kr	**83**		ug/L			62	89	9	Standard
>	**In-1**	**115**		ug/L			23226	21155	1	KED
	Cd	**111**	**0.013**	ug/L	0.012	95	3	6	51	KED
	Cd	**114**	**0.009**	ug/L	0.002	25	2	9	19	KED
>	**In**	**115**		ug/L			1635078	1535403	1	Standard
	Ag	**107**	**-0.001**	ug/L	0.001	104	87	69	17	Standard
	Sb	**121**	**0.007**	ug/L	0.003	38	387	518	12	Standard
	Sb	**123**	**0.008**	ug/L	0.002	29	284	404	10	Standard
	Ba	**135**	**2.275**	ug/L	0.019	0	264	13947	1	Standard
	Ba	**137**	**2.274**	ug/L	0.040	1	443	23365	0	Standard
>	**Tb**	**159**		ug/L			2771891	2794126	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	95	116	114	1	Standard
	Pb	**208**	**0.005**	ug/L	0.000	2	532	1080	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:22:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1028775	3	Standard
	Be	**9**	**0.015**	ug/L	0.002	15	13	92	10	Standard
	C	**13**		ug/L			30481	54495	1	Standard
	Cl	**37**		ug/L			8086439	8347529	1	Standard
>	**Sc**	**45**		ug/L			1349683	1509399	2	Standard
	V	**51**	**1.761**	ug/L	0.028	1	7438	63345	2	Standard
	V-1	**51**	**2.504**	ug/L	0.038	1	90	78192	1	Standard
	Cr	**52**	**0.192**	ug/L	0.031	15	21824	29481	1	Standard
	Cr	**53**	**2.682**	ug/L	0.079	2	116	8079	0	Standard
	Mn	**55**	**536.055**	ug/L	10.077	1	1991	21930867	1	Standard
>	**Ge**	**72**		ug/L			89878	77333	0	KED
	Ni	**60**	**5.947**	ug/L	0.064	1	14	7513	1	KED
	Ni	**62**	**5.954**	ug/L	0.221	3	6	1234	3	KED
	Cu	**63**	**5.790**	ug/L	0.048	0	115	21333	0	KED
	Cu	**65**	**5.726**	ug/L	0.086	1	62	10643	1	KED
	Zn	**66**	**5.278**	ug/L	0.109	2	209	2993	2	KED
	Zn	**67**	**4.641**	ug/L	0.197	4	35	437	4	KED
		75		ug/L	0.030	1	3	436	1	KED
	Se	**78**	**0.234**	ug/L	0.108	46	12	17	18	KED
	Y	**89**		ug/L			830650	883473	3	Standard
	Kr	**83**		ug/L			62	108	9	Standard
>	**In-1**	**115**		ug/L			23226	21164	1	KED
	Cd	**111**	**0.054**	ug/L	0.013	24	3	18	19	KED
	Cd	**114**	**0.072**	ug/L	0.006	7	2	56	8	KED
>	**In**	**115**		ug/L			1635078	1516486	1	Standard
	Ag	**107**	**0.004**	ug/L	0.001	19	87	165	8	Standard
	Sb	**121**	**0.122**	ug/L	0.002	1	387	3091	2	Standard
	Sb	**123**	**0.126**	ug/L	0.005	3	284	2302	2	Standard
	Ba	**135**	**3.492**	ug/L	0.112	3	264	21009	2	Standard
	Ba	**137**	**3.492**	ug/L	0.061	1	443	35216	0	Standard
>	**Tb**	**159**		ug/L			2771891	2679846	0	Standard
	Tl	**205**	**0.038**	ug/L	0.000	0	116	3387	0	Standard
	Pb	**208**	**0.003**	ug/L	0.001	19	532	854	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:30:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1136164	2	Standard
	Be	**9**	**-0.001**	ug/L	0.000	14	13	6	17	Standard
	C	**13**		ug/L			30481	30491	0	Standard
	Cl	**37**		ug/L			8086439	8329411	0	Standard
>	**Sc**	**45**		ug/L			1349683	1344448	1	Standard
	V	**51**	**-0.001**	ug/L	0.006	455	7438	7368	0	Standard
	V-1	**51**	**0.009**	ug/L	0.001	11	90	334	6	Standard
	Cr	**52**	**-0.013**	ug/L	0.016	121	21824	21433	0	Standard
	Cr	**53**	**0.021**	ug/L	0.004	17	116	172	7	Standard
	Mn	**55**	**-0.022**	ug/L	0.001	5	1991	1193	4	Standard
>	**Ge**	**72**		ug/L			89878	84688	1	KED
	Ni	**60**	**0.001**	ug/L	0.003	232	14	15	21	KED
	Ni	**62**	**-0.009**	ug/L	0.020	213	6	4	98	KED
	Cu	**63**	**-0.004**	ug/L	0.003	81	115	92	13	KED
	Cu	**65**	**-0.010**	ug/L	0.002	19	62	39	10	KED
	Zn	**66**	**-0.176**	ug/L	0.025	14	209	94	16	KED
	Zn	**67**	**-0.250**	ug/L	0.086	34	35	9	87	KED
	As	**75**	**-0.003**	ug/L	0.002	61	3	2	16	KED
	Se	**78**	**-0.066**	ug/L	0.020	30	12	9	7	KED
	Y	**89**		ug/L			830650	802180	2	Standard
	Kr	**83**		ug/L			62	49	15	Standard
>	**In-1**	**115**		ug/L			23226	22776	0	KED
	Cd	**111**	**-0.005**	ug/L	0.000	0	3	1		KED
	Cd	**114**	**-0.002**	ug/L	0.001	86	2	1	108	KED
>	**In**	**115**		ug/L			1635078	1595853	1	Standard
	Ag	**107**	**-0.001**	ug/L	0.000	42	87	64	14	Standard
	Sb	**121**	**-0.010**	ug/L	0.001	6	387	132	10	Standard
	Sb	**123**	**-0.009**	ug/L	0.000	4	284	119	5	Standard
	Ba	**135**	**-0.034**	ug/L	0.001	4	264	47	18	Standard
	Ba	**137**	**-0.036**	ug/L	0.001	2	443	59	16	Standard
>	**Tb**	**159**		ug/L			2771891	2693403	0	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	8	116	57	8	Standard
	Pb	**208**	**0.004**	ug/L	0.000	1	532	1017	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:35:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1072051	2	Standard
	Be	**9**	**49.528**	ug/L	0.902	1	13	265942	0	Standard
	C	**13**		ug/L			30481	29734	1	Standard
	Cl	**37**		ug/L			8086439	8535221	1	Standard
>	**Sc**	**45**		ug/L			1349683	1319372	1	Standard
	V	**51**	**48.162**	ug/L	0.206	0	7438	1323180	1	Standard
	V-1	**51**	**48.696**	ug/L	0.332	0	90	1327585	1	Standard
	Cr	**52**	**48.749**	ug/L	0.452	0	21824	1147936	1	Standard
	Cr	**53**	**50.551**	ug/L	0.829	1	116	131125	0	Standard
	Mn	**55**	**50.857**	ug/L	0.653	1	1991	1820779	0	Standard
>	**Ge**	**72**		ug/L			89878	83335	0	KED
	Ni	**60**	**50.435**	ug/L	0.627	1	14	68559	0	KED
	Ni	**62**	**50.064**	ug/L	1.660	3	6	11142	2	KED
	Cu	**63**	**51.887**	ug/L	0.850	1	115	205143	1	KED
	Cu	**65**	**51.499**	ug/L	1.054	2	62	102698	1	KED
	Zn	**66**	**51.579**	ug/L	0.309	0	209	29814	0	KED
	Zn	**67**	**51.457**	ug/L	0.500	0	35	4894	0	KED
	As	**75**	**49.897**	ug/L	0.284	0	3	13779	0	KED
	Se	**78**	**48.889**	ug/L	0.456	0	12	1514	0	KED
	Y	**89**		ug/L			830650	817176	1	Standard
	Kr	**83**		ug/L			62	60	16	Standard
>	**In-1**	**115**		ug/L			23226	21926	0	KED
	Cd	**111**	**52.526**	ug/L	1.455	2	3	15836	1	KED
	Cd	**114**	**52.692**	ug/L	0.832	1	2	41057	0	KED
>	**In**	**115**		ug/L			1635078	1569448	1	Standard
	Ag	**107**	**50.063**	ug/L	0.475	0	87	1091620	0	Standard
	Sb	**121**	**48.000**	ug/L	0.564	1	387	1113585	0	Standard
	Sb	**123**	**50.087**	ug/L	0.446	0	284	841466	0	Standard
	Ba	**135**	**47.309**	ug/L	0.671	1	264	291391	0	Standard
	Ba	**137**	**47.133**	ug/L	0.387	0	443	486580	0	Standard
>	**Tb**	**159**		ug/L			2771891	2760459	0	Standard
	Tl	**205**	**52.061**	ug/L	0.814	1	116	4602954	0	Standard
	Pb	**208**	**48.542**	ug/L	0.704	1	532	5793232	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:43:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1100690	2	Standard
	Be	**9**	**-0.000**	ug/L	0.000	801	13	13	14	Standard
	C	**13**		ug/L			30481	29722	1	Standard
	Cl	**37**		ug/L			8086439	8282301	0	Standard
>	**Sc**	**45**		ug/L			1349683	1332122	1	Standard
	V	**51**	**-0.011**	ug/L	0.002	22	7438	7032	0	Standard
	V-1	**51**	**0.005**	ug/L	0.001	17	90	233	9	Standard
	Cr	**52**	**-0.030**	ug/L	0.009	31	21824	20832	0	Standard
	Cr	**53**	**0.025**	ug/L	0.003	10	116	179	2	Standard
	Mn	**55**	**-0.022**	ug/L	0.002	7	1991	1187	4	Standard
>	**Ge**	**72**		ug/L			89878	83909	0	KED
	Ni	**60**	**0.010**	ug/L	0.001	15	14	26	7	KED
	Ni	**62**	**-0.001**	ug/L	0.027	3368	6	6	96	KED
	Cu	**63**	**0.003**	ug/L	0.005	180	115	120	18	KED
	Cu	**65**	**-0.002**	ug/L	0.004	217	62	54	14	KED
	Zn	**66**	**-0.148**	ug/L	0.022	14	209	109	11	KED
	Zn	**67**	**-0.122**	ug/L	0.092	75	35	21	40	KED
	As	**75**	**-0.000**	ug/L	0.005	2357	3	3	41	KED
	Se	**78**	**-0.024**	ug/L	0.057	233	12	10	15	KED
	Y	**89**		ug/L			830650	789443	0	Standard
	Kr	**83**		ug/L			62	56	1	Standard
>	**In-1**	**115**		ug/L			23226	23035	0	KED
	Cd	**111**	**-0.002**	ug/L	0.005	264	3	2	57	KED
	Cd	**114**	**-0.001**	ug/L	0.002	282	2	1	117	KED
>	**In**	**115**		ug/L			1635078	1596678	1	Standard
	Ag	**107**	**0.001**	ug/L	0.001	44	87	118	12	Standard
	Sb	**121**	**0.030**	ug/L	0.000	0	387	1094	0	Standard
	Sb	**123**	**0.032**	ug/L	0.004	12	284	826	6	Standard
	Ba	**135**	**-0.026**	ug/L	0.002	8	264	92	13	Standard
	Ba	**137**	**-0.028**	ug/L	0.002	6	443	140	12	Standard
>	**Tb**	**159**		ug/L			2771891	2693000	0	Standard
	Tl	**205**	**0.000**	ug/L	0.000	68	116	156	18	Standard
	Pb	**208**	**0.004**	ug/L	0.000	4	532	1032	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:48:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1054651	4	Standard
	Be	**9**	**0.010**	ug/L	0.002	15	13	66	15	Standard
	C	**13**		ug/L			30481	49243	0	Standard
	Cl	**37**		ug/L			8086439	8048542	1	Standard
>	**Sc**	**45**		ug/L			1349683	1561856	0	Standard
	V	**51**	**0.445**	ug/L	0.010	2	7438	22986	1	Standard
	V-1	**51**	**0.941**	ug/L	0.010	1	90	30488	1	Standard
	Cr	**52**	**0.145**	ug/L	0.010	7	21824	29230	0	Standard
	Cr	**53**	**1.814**	ug/L	0.047	2	116	5702	2	Standard
	Mn	**55**	**614.380**	ug/L	13.073	2	1991	26015327	1	Standard
>	**Ge**	**72**		ug/L			89878	79341	0	KED
	Ni	**60**	**0.620**	ug/L	0.034	5	14	815	4	KED
	Ni	**62**	**0.546**	ug/L	0.018	3	6	121	3	KED
	Cu	**63**	**0.071**	ug/L	0.008	11	115	370	8	KED
	Cu	**65**	**0.063**	ug/L	0.017	27	62	175	18	KED
	Zn	**66**	**2.393**	ug/L	0.079	3	209	1493	2	KED
	Zn	**67**	**2.234**	ug/L	0.233	10	35	232	9	KED
		75		ug/L	0.019	18	3	29	16	KED
	Se	**78**	**0.089**	ug/L	0.057	63	12	13	12	KED
	Y	**89**		ug/L			830650	822385	0	Standard
	Kr	**83**		ug/L			62	102	16	Standard
>	**In-1**	**115**		ug/L			23226	21339	1	KED
	Cd	**111**	**0.001**	ug/L	0.002	183	3	3	15	KED
	Cd	**114**	**0.004**	ug/L	0.004	100	2	5	59	KED
>	**In**	**115**		ug/L			1635078	1549014	1	Standard
	Ag	**107**	**0.001**	ug/L	0.001	70	87	99	10	Standard
	Sb	**121**	**0.022**	ug/L	0.002	10	387	873	6	Standard
	Sb	**123**	**0.019**	ug/L	0.003	15	284	591	8	Standard
	Ba	**135**	**3.907**	ug/L	0.042	1	264	23980	1	Standard
	Ba	**137**	**3.896**	ug/L	0.119	3	443	40075	1	Standard
>	**Tb**	**159**		ug/L			2771891	2769934	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	307	116	111	12	Standard
	Pb	**208**	**0.006**	ug/L	0.001	12	532	1278	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:53:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1053632	1	Standard
	Be	**9**	**0.009**	ug/L	0.001	11	13	62	9	Standard
	C	**13**		ug/L			30481	47657	0	Standard
	Cl	**37**		ug/L			8086439	8284608	1	Standard
>	**Sc**	**45**		ug/L			1349683	1580581	0	Standard
	V	**51**	**1.406**	ug/L	0.029	2	7438	54733	1	Standard
	V-1	**51**	**1.904**	ug/L	0.029	1	90	62301	1	Standard
	Cr	**52**	**0.219**	ug/L	0.010	4	21824	31615	0	Standard
	Cr	**53**	**1.886**	ug/L	0.019	0	116	5992	0	Standard
	Mn	**55**	**1032.475**	ug/L	10.759	1	1991	44244534	1	Standard
>	**Ge**	**72**		ug/L			89878	80096	0	KED
	Ni	**60**	**1.122**	ug/L	0.050	4	14	1479	4	KED
	Ni	**62**	**1.129**	ug/L	0.043	3	6	247	4	KED
	Cu	**63**	**0.216**	ug/L	0.014	6	115	923	5	KED
	Cu	**65**	**0.213**	ug/L	0.022	10	62	464	9	KED
	Zn	**66**	**1.668**	ug/L	0.061	3	209	1107	2	KED
	Zn	**67**	**1.588**	ug/L	0.006	0	35	175	0	KED
		75		ug/L	0.095	0	3	2849	1	KED
	Se	**78**	**0.062**	ug/L	0.052	85	12	12	11	KED
	Y	**89**		ug/L			830650	829435	1	Standard
	Kr	**83**		ug/L			62	116	22	Standard
>	**In-1**	**115**		ug/L			23226	21548	0	KED
	Cd	**111**	**0.006**	ug/L	0.004	59	3	5	21	KED
	Cd	**114**	**0.007**	ug/L	0.006	86	2	7	62	KED
>	**In**	**115**		ug/L			1635078	1551300	0	Standard
	Ag	**107**	**0.000**	ug/L	0.001	298	87	90	23	Standard
	Sb	**121**	**0.024**	ug/L	0.004	15	387	911	8	Standard
	Sb	**123**	**0.023**	ug/L	0.003	14	284	658	8	Standard
	Ba	**135**	**1.599**	ug/L	0.003	0	264	9979	0	Standard
	Ba	**137**	**1.603**	ug/L	0.034	2	443	16762	2	Standard
>	**Tb**	**159**		ug/L			2771891	2771790	0	Standard
	Tl	**205**	**0.007**	ug/L	0.000	5	116	709	5	Standard
	Pb	**208**	**0.003**	ug/L	0.000	17	532	860	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 05:59:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1040222	3	Standard
	Be	**9**	**0.001**	ug/L	0.002	157	13	17	43	Standard
	C	**13**		ug/L			30481	47717	2	Standard
	Cl	**37**		ug/L			8086439	8912941	0	Standard
>	**Sc**	**45**		ug/L			1349683	1565015	1	Standard
	V	**51**	**0.214**	ug/L	0.026	12	7438	15570	4	Standard
	V-1	**51**	**1.255**	ug/L	0.013	1	90	40688	0	Standard
	Cr	**52**	**0.117**	ug/L	0.015	12	21824	28502	0	Standard
	Cr	**53**	**3.616**	ug/L	0.059	1	116	11253	2	Standard
	Mn	**55**	**1787.003**	ug/L	35.941	2	1991	75804127	0	Standard
>	**Ge**	**72**		ug/L			89878	79337	0	KED
	Ni	**60**	**2.152**	ug/L	0.060	2	14	2797	2	KED
	Ni	**62**	**2.021**	ug/L	0.037	1	6	434	2	KED
	Cu	**63**	**0.028**	ug/L	0.002	6	115	206	2	KED
	Cu	**65**	**0.034**	ug/L	0.002	6	62	119	4	KED
	Zn	**66**	**1.339**	ug/L	0.059	4	209	916	3	KED
	Zn	**67**	**1.338**	ug/L	0.218	16	35	151	13	KED
		75		ug/L	0.170	1	3	2967	2	KED
	Se	**78**	**-0.000**	ug/L	0.164	33829	12	10	43	KED
	Y	**89**		ug/L			830650	806583	1	Standard
	Kr	**83**		ug/L			62	109	5	Standard
>	**In-1**	**115**		ug/L			23226	21395	1	KED
	Cd	**111**	**-0.000**	ug/L	0.004	2659	3	3	34	KED
	Cd	**114**	**0.000**	ug/L	0.001	471	2	2	46	KED
>	**In**	**115**		ug/L			1635078	1531135	0	Standard
	Ag	**107**	**0.000**	ug/L	0.000	194	87	86	8	Standard
	Sb	**121**	**0.021**	ug/L	0.002	8	387	840	5	Standard
	Sb	**123**	**0.023**	ug/L	0.004	16	284	640	9	Standard
	Ba	**135**	**0.334**	ug/L	0.006	1	264	2254	1	Standard
	Ba	**137**	**0.328**	ug/L	0.009	2	443	3719	1	Standard
>	**Tb**	**159**		ug/L			2771891	2858947	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	15	116	223	7	Standard
	Pb	**208**	**0.003**	ug/L	0.000	10	532	875	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:05:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	943177	1	Standard
	Be	**9**	**0.004**	ug/L	0.002	42	13	30	27	Standard
	C	**13**		ug/L			30481	54835	0	Standard
	Cl	**37**		ug/L			8086439	8708395	0	Standard
>	**Sc**	**45**		ug/L			1349683	1695040	1	Standard
	V	**51**	**0.741**	ug/L	0.010	1	7438	35365	0	Standard
	V-1	**51**	**1.026**	ug/L	0.015	1	90	36030	0	Standard
	Cr	**52**	**-0.024**	ug/L	0.011	46	21824	26703	0	Standard
	Cr	**53**	**0.926**	ug/L	0.033	3	116	3230	1	Standard
	Mn	**55**	**2893.577**	ug/L	49.242	1	1991	132951395	0	Standard
>	**Ge**	**72**		ug/L			89878	73051	0	KED
	Ni	**60**	**5.277**	ug/L	0.155	2	14	6299	3	KED
	Ni	**62**	**5.291**	ug/L	0.144	2	6	1037	2	KED
	Cu	**63**	**0.311**	ug/L	0.008	2	115	1170	2	KED
	Cu	**65**	**0.304**	ug/L	0.022	7	62	582	7	KED
	Zn	**66**	**1.020**	ug/L	0.089	8	209	683	5	KED
	Zn	**67**	**0.961**	ug/L	0.315	32	35	108	24	KED
		75		ug/L	0.221	0	3	10716	0	KED
	Se	**78**	**0.330**	ug/L	0.170	51	12	18	23	KED
	Y	**89**		ug/L			830650	771238	0	Standard
	Kr	**83**		ug/L			62	107	6	Standard
>	**In-1**	**115**		ug/L			23226	19919	0	KED
	Cd	**111**	**0.002**	ug/L	0.005	291	3	3	41	KED
	Cd	**114**	**0.005**	ug/L	0.003	64	2	5	39	KED
>	**In**	**115**		ug/L			1635078	1434130	1	Standard
	Ag	**107**	**0.004**	ug/L	0.001	29	87	151	14	Standard
	Sb	**121**	**0.119**	ug/L	0.008	6	387	2858	4	Standard
	Sb	**123**	**0.118**	ug/L	0.005	4	284	2057	4	Standard
	Ba	**135**	**0.548**	ug/L	0.021	3	264	3312	2	Standard
	Ba	**137**	**0.541**	ug/L	0.007	1	443	5491	1	Standard
>	**Tb**	**159**		ug/L			2771891	2804735	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	10	116	321	6	Standard
	Pb	**208**	**0.001**	ug/L	0.000	5	532	659	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:14:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1079835	1	Standard
	Be	**9**	**-0.001**	ug/L	0.001	95	13	8	58	Standard
	C	**13**		ug/L			30481	29352	0	Standard
	Cl	**37**		ug/L			8086439	8071877	0	Standard
>	**Sc**	**45**		ug/L			1349683	1330851	0	Standard
	V	**51**	**-0.003**	ug/L	0.003	84	7438	7251	1	Standard
	V-1	**51**	**0.014**	ug/L	0.000	2	90	470	1	Standard
	Cr	**52**	**-0.009**	ug/L	0.009	103	21824	21307	2	Standard
	Cr	**53**	**0.047**	ug/L	0.003	5	116	239	3	Standard
	Mn	**55**	**0.033**	ug/L	0.002	6	1991	3163	3	Standard
>	**Ge**	**72**		ug/L			89878	86202	0	KED
	Ni	**60**	**0.001**	ug/L	0.002	156	14	15	18	KED
	Ni	**62**	**0.001**	ug/L	0.031	2467	6	6	103	KED
	Cu	**63**	**0.006**	ug/L	0.003	51	115	137	9	KED
	Cu	**65**	**0.008**	ug/L	0.007	89	62	76	20	KED
	Zn	**66**	**-0.028**	ug/L	0.057	199	209	184	18	KED
	Zn	**67**	**-0.031**	ug/L	0.011	34	35	31	3	KED
	As	**75**	**0.001**	ug/L	0.007	1315	3	3	54	KED
	Se	**78**	**-0.041**	ug/L	0.017	42	12	10	5	KED
	Y	**89**		ug/L			830650	820564	1	Standard
	Kr	**83**		ug/L			62	55	20	Standard
>	**In-1**	**115**		ug/L			23226	23281	0	KED
	Cd	**111**	**-0.003**	ug/L	0.005	149	3	2	57	KED
	Cd	**114**	**-0.001**	ug/L	0.004	698	2	2	143	KED
>	**In**	**115**		ug/L			1635078	1646310	0	Standard
	Ag	**107**	**-0.001**	ug/L	0.000	45	87	64	16	Standard
	Sb	**121**	**0.014**	ug/L	0.002	11	387	735	6	Standard
	Sb	**123**	**0.014**	ug/L	0.001	5	284	535	3	Standard
	Ba	**135**	**-0.025**	ug/L	0.001	2	264	106	3	Standard
	Ba	**137**	**-0.027**	ug/L	0.001	2	443	158	4	Standard
>	**Tb**	**159**		ug/L			2771891	2734008	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	32	116	86	11	Standard
	Pb	**208**	**0.005**	ug/L	0.000	7	532	1121	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:19:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	966481	5	Standard
	Be	**9**	**0.030**	ug/L	0.004	15	13	154	9	Standard
	C	**13**		ug/L			30481	78539	1	Standard
	Cl	**37**		ug/L			8086439	7930546	1	Standard
>	**Sc**	**45**		ug/L			1349683	1569908	2	Standard
	V	**51**	**8.540**	ug/L	0.219	2	7438	286171	0	Standard
	V-1	**51**	**8.703**	ug/L	0.209	2	90	282287	0	Standard
	Cr	**52**	**0.806**	ug/L	0.043	5	21824	47534	0	Standard
	Cr	**53**	**1.295**	ug/L	0.011	0	116	4129	2	Standard
	Mn	**55**	**3385.570**	ug/L	53.514	1	1991	144051587	1	Standard
>	**Ge**	**72**		ug/L			89878	75968	0	KED
	Ni	**60**	**4.158**	ug/L	0.071	1	14	5164	1	KED
	Ni	**62**	**4.267**	ug/L	0.178	4	6	871	3	KED
	Cu	**63**	**0.368**	ug/L	0.011	2	115	1423	2	KED
	Cu	**65**	**0.347**	ug/L	0.036	10	62	682	8	KED
	Zn	**66**	**10.677**	ug/L	0.403	3	209	5766	3	KED
	Zn	**67**	**10.340**	ug/L	0.367	3	35	920	3	KED
		75		ug/L	0.164	0	3	4654	0	KED
	Se	**78**	**1.058**	ug/L	0.234	22	12	40	16	KED
	Y	**89**		ug/L			830650	913654	4	Standard
	Kr	**83**		ug/L			62	137	6	Standard
>	**In-1**	**115**		ug/L			23226	20479	1	KED
	Cd	**111**	**-0.001**	ug/L	0.009	1193	3	2	88	KED
	Cd	**114**	**0.004**	ug/L	0.002	57	2	5	33	KED
>	**In**	**115**		ug/L			1635078	1457093	3	Standard
	Ag	**107**	**0.035**	ug/L	0.003	8	87	792	4	Standard
	Sb	**121**	**0.248**	ug/L	0.006	2	387	5681	2	Standard
	Sb	**123**	**0.269**	ug/L	0.009	3	284	4453	2	Standard
	Ba	**135**	**6.010**	ug/L	0.193	3	264	34554	0	Standard
	Ba	**137**	**6.063**	ug/L	0.142	2	443	58427	1	Standard
>	**Tb**	**159**		ug/L			2771891	2754949	3	Standard
	Tl	**205**	**0.015**	ug/L	0.000	1	116	1478	3	Standard
	Pb	**208**	**0.043**	ug/L	0.001	3	532	5647	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:24:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1000552	1	Standard
	Be	**9**	**0.008**	ug/L	0.000	5	13	53	3	Standard
	C	**13**		ug/L			30481	49251	1	Standard
	Cl	**37**		ug/L			8086439	9433299	0	Standard
>	**Sc**	**45**		ug/L			1349683	1727571	1	Standard
	V	**51**	**0.711**	ug/L	0.012	1	7438	34970	1	Standard
	V-1	**51**	**1.160**	ug/L	0.011	0	90	41527	1	Standard
	Cr	**52**	**0.205**	ug/L	0.027	13	21824	34126	1	Standard
	Cr	**53**	**1.711**	ug/L	0.041	2	116	5953	0	Standard
	Mn	**55**	**3012.073**	ug/L	32.713	1	1991	141055224	1	Standard
>	**Ge**	**72**		ug/L			89878	78442	0	KED
	Ni	**60**	**1.192**	ug/L	0.025	2	14	1537	1	KED
	Ni	**62**	**1.293**	ug/L	0.110	8	6	276	8	KED
	Cu	**63**	**0.433**	ug/L	0.003	0	115	1711	0	KED
	Cu	**65**	**0.467**	ug/L	0.008	1	62	930	1	KED
	Zn	**66**	**1.070**	ug/L	0.011	1	209	761	0	KED
	Zn	**67**	**1.072**	ug/L	0.230	21	35	126	15	KED
		75		ug/L	0.091	0	3	2429	0	KED
	Se	**78**	**0.202**	ug/L	0.048	23	12	16	8	KED
	Y	**89**		ug/L			830650	793764	1	Standard
	Kr	**83**		ug/L			62	106	6	Standard
>	**In-1**	**115**		ug/L			23226	20752	1	KED
	Cd	**111**	**-0.001**	ug/L	0.003	335	3	2	33	KED
	Cd	**114**	**0.001**	ug/L	0.006	578	2	2	141	KED
>	**In**	**115**		ug/L			1635078	1513520	0	Standard
	Ag	**107**	**0.001**	ug/L	0.000	54	87	95	7	Standard
		121		ug/L	0.000	1	387	760	0	Standard
	Sb	**123**	**0.020**	ug/L	0.001	5	284	592	3	Standard
	Ba	**135**	**1.196**	ug/L	0.007	0	264	7343	1	Standard
	Ba	**137**	**1.220**	ug/L	0.005	0	443	12543	0	Standard
>	**Tb**	**159**		ug/L			2771891	2871589	1	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	235	116	114	12	Standard
		208		ug/L	0.000	8	532	989	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:29:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	997499	2	Standard
	Be	**9**	**0.012**	ug/L	0.000	3	13	74	5	Standard
	C	**13**		ug/L			30481	48929	0	Standard
	Cl	**37**		ug/L			8086439	9352157	0	Standard
>	**Sc**	**45**		ug/L			1349683	1714394	1	Standard
	V	**51**	**0.721**	ug/L	0.009	1	7438	35059	0	Standard
	V-1	**51**	**1.165**	ug/L	0.010	0	90	41371	1	Standard
	Cr	**52**	**0.217**	ug/L	0.014	6	21824	34241	0	Standard
	Cr	**53**	**1.704**	ug/L	0.025	1	116	5887	1	Standard
	Mn	**55**	**3031.739**	ug/L	37.688	1	1991	140892620	0	Standard
>	**Ge**	**72**		ug/L			89878	78016	1	KED
	Ni	**60**	**1.204**	ug/L	0.032	2	14	1544	1	KED
	Ni	**62**	**1.266**	ug/L	0.034	2	6	269	3	KED
	Cu	**63**	**3.445**	ug/L	0.070	2	115	12845	0	KED
	Cu	**65**	**3.420**	ug/L	0.087	2	62	6434	2	KED
	Zn	**66**	**2.679**	ug/L	0.147	5	209	1622	5	KED
	Zn	**67**	**2.501**	ug/L	0.023	0	35	252	1	KED
		75		ug/L	0.093	0	3	2437	0	KED
	Se	**78**	**0.220**	ug/L	0.062	28	12	17	11	KED
	Y	**89**		ug/L			830650	789044	1	Standard
	Kr	**83**		ug/L			62	97	13	Standard
>	**In-1**	**115**		ug/L			23226	20945	0	KED
	Cd	**111**	**-0.001**	ug/L	0.003	318	3	2	33	KED
	Cd	**114**	**0.004**	ug/L	0.003	63	2	5	37	KED
>	**In**	**115**		ug/L			1635078	1482507	0	Standard
	Ag	**107**	**0.002**	ug/L	0.001	49	87	121	16	Standard
		121		ug/L	0.000	2	387	829	1	Standard
	Sb	**123**	**0.024**	ug/L	0.003	11	284	631	5	Standard
	Ba	**135**	**1.228**	ug/L	0.043	3	264	7377	2	Standard
	Ba	**137**	**1.239**	ug/L	0.016	1	443	12477	0	Standard
>	**Tb**	**159**		ug/L			2771891	2845550	0	Standard
	Tl	**205**	**0.003**	ug/L	0.000	7	116	355	4	Standard
		208		ug/L	0.001	2	532	5356	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID:
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:36:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	980543	2	Standard
	Be	**9**	**24.075**	ug/L	0.216	0	13	118264	1	Standard
	C	**13**		ug/L			30481	47835	0	Standard
	Cl	**37**		ug/L			8086439	9327794	0	Standard
>	**Sc**	**45**		ug/L			1349683	1691009	1	Standard
	V	**51**	**18.828**	ug/L	0.237	1	7438	668645	1	Standard
	V-1	**51**	**19.488**	ug/L	0.259	1	90	681005	1	Standard
	Cr	**52**	**18.266**	ug/L	0.207	1	21824	568385	0	Standard
	Cr	**53**	**20.480**	ug/L	0.254	1	116	68180	1	Standard
	Mn	**55**	**3015.215**	ug/L	27.895	0	1991	138219374	0	Standard
>	**Ge**	**72**		ug/L			89878	76931	0	KED
	Ni	**60**	**27.179**	ug/L	0.743	2	14	34110	2	KED
	Ni	**62**	**27.012**	ug/L	1.060	3	6	5552	3	KED
	Cu	**63**	**25.486**	ug/L	0.087	0	115	93072	0	KED
	Cu	**65**	**25.447**	ug/L	0.179	0	62	46871	0	KED
	Zn	**66**	**76.687**	ug/L	0.815	1	209	40832	0	KED
	Zn	**67**	**72.871**	ug/L	0.822	1	35	6386	2	KED
		75		ug/L	0.173	0	3	8706	0	KED
	Se	**78**	**75.171**	ug/L	2.115	2	12	2143	2	KED
	Y	**89**		ug/L			830650	784843	1	Standard
	Kr	**83**		ug/L			62	101	8	Standard
>	**In-1**	**115**		ug/L			23226	20610	1	KED
	Cd	**111**	**25.166**	ug/L	0.114	0	3	7134	1	KED
	Cd	**114**	**25.116**	ug/L	0.534	2	2	18395	0	KED
>	**In**	**115**		ug/L			1635078	1474421	0	Standard
	Ag	**107**	**22.971**	ug/L	0.093	0	87	470642	0	Standard
		121		ug/L	0.250	1	387	510885	1	Standard
	Sb	**123**	**24.386**	ug/L	0.326	1	284	385035	1	Standard
	Ba	**135**	**27.859**	ug/L	0.305	1	264	161322	1	Standard
	Ba	**137**	**28.522**	ug/L	0.135	0	443	276792	0	Standard
>	**Tb**	**159**		ug/L			2771891	2848086	0	Standard
	Tl	**205**	**20.891**	ug/L	0.284	1	116	1905808	1	Standard
		208		ug/L	0.165	0	532	2562723	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:44:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1084314	1090091	1	Standard
⌊	**Be**	**9**	**-0.002**	ug/L	0.000	10	13	3	34	Standard
	C	**13**		ug/L			30481	30287	2	Standard
	Cl	**37**		ug/L			8086439	8158868	0	Standard
⌈>	**Sc**	**45**		ug/L			1349683	1320266	1	Standard
⌈	**V**	**51**	**-0.003**	ug/L	0.002	57	7438	7185	1	Standard
⌊	**V-1**	**51**	**0.024**	ug/L	0.001	5	90	730	5	Standard
⌈	**Cr**	**52**	**-0.007**	ug/L	0.011	151	21824	21176	0	Standard
⌊	**Cr**	**53**	**0.083**	ug/L	0.007	8	116	328	4	Standard
⌈	**Mn**	**55**	**0.120**	ug/L	0.006	4	1991	6223	1	Standard
⌈>	**Ge**	**72**		ug/L			89878	84676	1	KED
⌈	**Ni**	**60**	**0.003**	ug/L	0.004	120	14	18	31	KED
⌊	**Ni**	**62**	**-0.004**	ug/L	0.008	217	6	5	33	KED
⌈	**Cu**	**63**	**0.010**	ug/L	0.003	28	115	149	8	KED
⌊	**Cu**	**65**	**0.005**	ug/L	0.008	143	62	69	23	KED
⌈	**Zn**	**66**	**-0.029**	ug/L	0.027	92	209	180	7	KED
⌊	**Zn**	**67**	**0.055**	ug/L	0.122	221	35	38	29	KED
⌈	**As**	**75**	**-0.001**	ug/L	0.006	597	3	3	49	KED
⌊	**Se**	**78**	**-0.029**	ug/L	0.013	44	12	10	4	KED
	Y	**89**		ug/L			830650	805946	0	Standard
	Kr	**83**		ug/L			62	55	11	Standard
⌈>	**In-1**	**115**		ug/L			23226	22578	2	KED
⌈	**Cd**	**111**	**-0.002**	ug/L	0.003	186	3	2	33	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.000	23	2	3	7	KED
⌈>	**In**	**115**		ug/L			1635078	1597606	1	Standard
⌈	**Ag**	**107**	**-0.000**	ug/L	0.001	170	87	76	20	Standard
⌈	**Sb**	**121**	**0.015**	ug/L	0.002	11	387	725	6	Standard
⌊	**Sb**	**123**	**0.014**	ug/L	0.003	21	284	526	10	Standard
⌈	**Ba**	**135**	**-0.026**	ug/L	0.004	14	264	96	24	Standard
⌊	**Ba**	**137**	**-0.025**	ug/L	0.001	5	443	173	7	Standard
⌈>	**Tb**	**159**		ug/L			2771891	2714462	0	Standard
⌈	**Tl**	**205**	**-0.000**	ug/L	0.000	71	116	95	13	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	8	532	1120	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:49:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1059029	3	Standard
	Be	**9**	**49.871**	ug/L	1.172	2	13	264496	1	Standard
	C	**13**		ug/L			30481	30303	0	Standard
	Cl	**37**		ug/L			8086439	8362532	1	Standard
>	**Sc**	**45**		ug/L			1349683	1315396	0	Standard
	V	**51**	**48.207**	ug/L	0.604	1	7438	1320558	1	Standard
	V-1	**51**	**48.872**	ug/L	0.443	0	90	1328508	1	Standard
	Cr	**52**	**48.791**	ug/L	0.636	1	21824	1145563	1	Standard
	Cr	**53**	**51.031**	ug/L	0.568	1	116	131991	0	Standard
	Mn	**55**	**50.054**	ug/L	0.322	0	1991	1786909	0	Standard
>	**Ge**	**72**		ug/L			89878	83202	0	KED
	Ni	**60**	**51.516**	ug/L	0.354	0	14	69921	1	KED
	Ni	**62**	**50.846**	ug/L	0.588	1	6	11299	1	KED
	Cu	**63**	**51.935**	ug/L	0.249	0	115	205012	0	KED
	Cu	**65**	**51.933**	ug/L	0.201	0	62	103400	0	KED
	Zn	**66**	**51.247**	ug/L	0.417	0	209	29576	0	KED
	Zn	**67**	**50.898**	ug/L	0.338	0	35	4833	0	KED
	As	**75**	**50.758**	ug/L	0.085	0	3	13995	0	KED
	Se	**78**	**48.783**	ug/L	1.277	2	12	1508	2	KED
	Y	**89**		ug/L			830650	803744	1	Standard
	Kr	**83**		ug/L			62	59	17	Standard
>	**In-1**	**115**		ug/L			23226	22013	1	KED
	Cd	**111**	**52.428**	ug/L	0.286	0	3	15870	0	KED
	Cd	**114**	**52.463**	ug/L	0.502	0	2	41040	0	KED
>	**In**	**115**		ug/L			1635078	1572809	1	Standard
	Ag	**107**	**48.256**	ug/L	1.131	2	87	1054734	3	Standard
	Sb	**121**	**48.099**	ug/L	1.289	2	387	1118081	1	Standard
	Sb	**123**	**50.470**	ug/L	1.307	2	284	849545	1	Standard
	Ba	**135**	**47.826**	ug/L	0.734	1	264	295198	0	Standard
	Ba	**137**	**48.048**	ug/L	0.641	1	443	497044	0	Standard
>	**Tb**	**159**		ug/L			2771891	2754596	0	Standard
	Tl	**205**	**52.502**	ug/L	0.156	0	116	4632398	1	Standard
	Pb	**208**	**48.879**	ug/L	0.376	0	532	5821155	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 06:57:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1073340	1	Standard
	Be	**9**	**0.001**	ug/L	0.002	239	13	17	61	Standard
	C	**13**		ug/L			30481	30068	1	Standard
	Cl	**37**		ug/L			8086439	8132947	1	Standard
>	**Sc**	**45**		ug/L			1349683	1308984	0	Standard
	V	**51**	**-0.007**	ug/L	0.002	26	7438	7028	0	Standard
	V-1	**51**	**0.014**	ug/L	0.000	3	90	478	2	Standard
	Cr	**52**	**-0.012**	ug/L	0.006	55	21824	20900	1	Standard
	Cr	**53**	**0.060**	ug/L	0.008	12	116	267	7	Standard
	Mn	**55**	**-0.006**	ug/L	0.002	35	1991	1727	4	Standard
>	**Ge**	**72**		ug/L			89878	84638	1	KED
	Ni	**60**	**0.011**	ug/L	0.006	50	14	29	26	KED
	Ni	**62**	**0.005**	ug/L	0.000	8	6	7	0	KED
	Cu	**63**	**0.002**	ug/L	0.002	68	115	118	4	KED
	Cu	**65**	**-0.002**	ug/L	0.005	204	62	53	16	KED
	Zn	**66**	**-0.106**	ug/L	0.037	34	209	135	16	KED
	Zn	**67**	**-0.124**	ug/L	0.043	34	35	21	18	KED
	As	**75**	**0.003**	ug/L	0.004	120	3	4	22	KED
	Se	**78**	**0.098**	ug/L	0.013	13	12	14	3	KED
	Y	**89**		ug/L			830650	800614	0	Standard
	Kr	**83**		ug/L			62	51	32	Standard
>	**In-1**	**115**		ug/L			23226	22646	1	KED
	Cd	**111**	**-0.001**	ug/L	0.006	896	3	3	62	KED
	Cd	**114**	**0.006**	ug/L	0.002	36	2	7	24	KED
>	**In**	**115**		ug/L			1635078	1577480	0	Standard
	Ag	**107**	**0.001**	ug/L	0.000	19	87	111	4	Standard
	Sb	**121**	**0.032**	ug/L	0.001	4	387	1131	3	Standard
	Sb	**123**	**0.034**	ug/L	0.004	10	284	846	7	Standard
	Ba	**135**	**-0.025**	ug/L	0.004	15	264	99	24	Standard
	Ba	**137**	**-0.025**	ug/L	0.001	5	443	165	8	Standard
>	**Tb**	**159**		ug/L			2771891	2700719	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	7	116	238	3	Standard
	Pb	**208**	**0.006**	ug/L	0.000	4	532	1210	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 07:02:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1227797	3	Standard
	Be	**9**	**-0.001**	ug/L	0.000	37	13	9	20	Standard
	C	**13**		ug/L			30481	32632	2	Standard
	Cl	**37**		ug/L			8086439	8275203	0	Standard
>	**Sc**	**45**		ug/L			1349683	1493662	1	Standard
	V	**51**	**-0.008**	ug/L	0.003	45	7438	7993	1	Standard
	V-1	**51**	**0.009**	ug/L	0.000	3	90	381	2	Standard
	Cr	**52**	**-0.032**	ug/L	0.015	47	21824	23321	0	Standard
	Cr	**53**	**0.025**	ug/L	0.005	19	116	200	5	Standard
	Mn	**55**	**-0.001**	ug/L	0.001	84	1991	2151	0	Standard
>	**Ge**	**72**		ug/L			89878	86538	0	KED
	Ni	**60**	**0.016**	ug/L	0.031	194	14	36	120	KED
	Ni	**62**	**0.039**	ug/L	0.047	119	6	15	69	KED
	Cu	**63**	**0.013**	ug/L	0.034	265	115	164	85	KED
	Cu	**65**	**0.012**	ug/L	0.033	274	62	85	81	KED
	Zn	**66**	**-0.269**	ug/L	0.049	18	209	41	71	KED
	Zn	**67**	**-0.239**	ug/L	0.012	4	35	10	10	KED
	As	**75**	**0.013**	ug/L	0.025	188	3	7	95	KED
	Se	**78**	**0.003**	ug/L	0.109	3194	12	12	29	KED
	Y	**89**		ug/L			830650	899595	0	Standard
	Kr	**83**		ug/L			62	59	20	Standard
>	**In-1**	**115**		ug/L			23226	24084	1	KED
	Cd	**111**	**-0.002**	ug/L	0.006	238	3	2	66	KED
	Cd	**114**	**-0.000**	ug/L	0.001	810	2	2	46	KED
>	**In**	**115**		ug/L			1635078	1746233	0	Standard
	Ag	**107**	**0.000**	ug/L	0.000	172	87	98	8	Standard
	Sb	**121**	**0.009**	ug/L	0.002	17	387	639	6	Standard
	Sb	**123**	**0.009**	ug/L	0.001	16	284	466	5	Standard
	Ba	**135**	**-0.037**	ug/L	0.001	2	264	27	19	Standard
	Ba	**137**	**-0.037**	ug/L	0.001	2	443	48	21	Standard
>	**Tb**	**159**		ug/L			2771891	2932572	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	217	116	118	8	Standard
	Pb	**208**	**-0.001**	ug/L	0.000	21	532	399	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 07:07:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1084314	1227672	2	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	50	13	6	69	Standard
	C	**13**		ug/L			30481	32883	0	Standard
	Cl	**37**		ug/L			8086439	8280038	0	Standard
⌈>	**Sc**	**45**		ug/L			1349683	1475395	1	Standard
|	**V**	**51**	**-0.006**	ug/L	0.004	66	7438	7945	0	Standard
|	**V-1**	**51**	**0.008**	ug/L	0.001	8	90	334	6	Standard
|	**Cr**	**52**	**-0.017**	ug/L	0.013	75	21824	23424	0	Standard
|	**Cr**	**53**	**0.030**	ug/L	0.005	15	116	213	7	Standard
⌊	**Mn**	**55**	**-0.005**	ug/L	0.001	15	1991	1975	2	Standard
⌈>	**Ge**	**72**		ug/L			89878	87302	1	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	58	14	5	88	KED
|	**Ni**	**62**	**-0.010**	ug/L	0.012	121	6	4	65	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.002	38	115	88	9	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.008	138	62	48	31	KED
|	**Zn**	**66**	**-0.269**	ug/L	0.006	2	209	41	7	KED
|	**Zn**	**67**	**-0.298**	ug/L	0.044	14	35	5	86	KED
|	**As**	**75**	**-0.005**	ug/L	0.001	16	3	2	12	KED
⌊	**Se**	**78**	**-0.008**	ug/L	0.040	496	12	11	10	KED
	Y	**89**		ug/L			830650	894870	2	Standard
	Kr	**83**		ug/L			62	55	11	Standard
⌈>	**In-1**	**115**		ug/L			23226	23299	4	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.004	132	3	2	43	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	162	2	1	200	KED
⌈>	**In**	**115**		ug/L			1635078	1736155	1	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.000	39	87	76	7	Standard
|	**Sb**	**121**	**-0.004**	ug/L	0.001	26	387	307	7	Standard
|	**Sb**	**123**	**-0.004**	ug/L	0.001	26	284	231	6	Standard
|	**Ba**	**135**	**-0.036**	ug/L	0.001	3	264	33	26	Standard
⌊	**Ba**	**137**	**-0.037**	ug/L	0.001	2	443	53	22	Standard
⌈>	**Tb**	**159**		ug/L			2771891	2950338	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	29	116	70	24	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	18	532	366	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 07:12:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1244968	2	Standard
	Be	**9**	**-0.002**	ug/L	0.000	19	13	5	33	Standard
	C	**13**		ug/L			30481	32579	0	Standard
	Cl	**37**		ug/L			8086439	8170094	1	Standard
>	**Sc**	**45**		ug/L			1349683	1513523	1	Standard
	V	**51**	**-0.013**	ug/L	0.001	4	7438	7918	1	Standard
	V-1	**51**	**0.007**	ug/L	0.000	4	90	305	1	Standard
	Cr	**52**	**-0.040**	ug/L	0.003	6	21824	23425	1	Standard
	Cr	**53**	**0.028**	ug/L	0.006	20	116	212	6	Standard
	Mn	**55**	**-0.008**	ug/L	0.001	7	1991	1903	2	Standard
>	**Ge**	**72**		ug/L			89878	86763	1	KED
	Ni	**60**	**-0.003**	ug/L	0.005	142	14	9	69	KED
	Ni	**62**	**-0.018**	ug/L	0.005	27	6	2	43	KED
	Cu	**63**	**-0.007**	ug/L	0.002	32	115	81	10	KED
	Cu	**65**	**-0.008**	ug/L	0.001	18	62	43	6	KED
	Zn	**66**	**-0.284**	ug/L	0.005	1	209	32	10	KED
	Zn	**67**	**-0.258**	ug/L	0.030	11	35	8	32	KED
	As	**75**	**-0.002**	ug/L	0.004	162	3	3	36	KED
	Se	**78**	**-0.042**	ug/L	0.030	71	12	10	9	KED
	Y	**89**		ug/L			830650	902210	2	Standard
	Kr	**83**		ug/L			62	53	14	Standard
>	**In-1**	**115**		ug/L			23226	24250	1	KED
	Cd	**111**	**-0.006**	ug/L	0.002	25	3	1	34	KED
	Cd	**114**	**-0.002**	ug/L	0.002	145	2	1	197	KED
>	**In**	**115**		ug/L			1635078	1732550	1	Standard
	Ag	**107**	**-0.001**	ug/L	0.001	146	87	77	28	Standard
	Sb	**121**	**-0.008**	ug/L	0.001	10	387	206	12	Standard
	Sb	**123**	**-0.008**	ug/L	0.001	15	284	160	14	Standard
	Ba	**135**	**-0.037**	ug/L	0.001	2	264	27	17	Standard
	Ba	**137**	**-0.038**	ug/L	0.000	0	443	37	10	Standard
>	**Tb**	**159**		ug/L			2771891	2942165	1	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	17	116	61	18	Standard
	Pb	**208**	**-0.002**	ug/L	0.000	5	532	372	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 07:17:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1084314	1055613	1	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.000	38	13	7	25	Standard
	C	**13**		ug/L			30481	30542	0	Standard
	Cl	**37**		ug/L			8086439	7796342	0	Standard
⌈>	**Sc**	**45**		ug/L			1349683	1257311	0	Standard
⌈	**V**	**51**	**0.002**	ug/L	0.002	99	7438	6983	1	Standard
⌈	**V-1**	**51**	**0.009**	ug/L	0.001	11	90	322	7	Standard
⌈	**Cr**	**52**	**0.006**	ug/L	0.009	152	21824	20466	1	Standard
⌈	**Cr**	**53**	**0.030**	ug/L	0.001	4	116	182	1	Standard
⌊	**Mn**	**55**	**-0.033**	ug/L	0.001	2	1991	722	4	Standard
⌈>	**Ge**	**72**		ug/L			89878	82282	1	KED
⌈	**Ni**	**60**	**-0.001**	ug/L	0.004	262	14	11	44	KED
⌈	**Ni**	**62**	**-0.009**	ug/L	0.005	56	6	4	24	KED
⌈	**Cu**	**63**	**-0.006**	ug/L	0.004	67	115	83	17	KED
⌈	**Cu**	**65**	**-0.008**	ug/L	0.004	42	62	40	16	KED
⌈	**Zn**	**66**	**-0.222**	ug/L	0.030	13	209	66	26	KED
⌈	**Zn**	**67**	**-0.294**	ug/L	0.044	14	35	5	78	KED
⌈	**As**	**75**	**-0.003**	ug/L	0.001	29	3	2	10	KED
⌊	**Se**	**78**	**-0.003**	ug/L	0.075	2232	12	11	19	KED
	Y	**89**		ug/L			830650	763661	1	Standard
	Kr	**83**		ug/L			62	48	12	Standard
⌈>	**In-1**	**115**		ug/L			23226	21428	0	KED
⌈	**Cd**	**111**	**-0.004**	ug/L	0.007	146	3	1	100	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	469	2	1	105	KED
⌈>	**In**	**115**		ug/L			1635078	1534631	1	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	66	87	55	30	Standard
⌈	**Sb**	**121**	**-0.013**	ug/L	0.000	3	387	77	12	Standard
⌈	**Sb**	**123**	**-0.012**	ug/L	0.001	5	284	68	18	Standard
⌈	**Ba**	**135**	**-0.036**	ug/L	0.001	3	264	31	24	Standard
⌊	**Ba**	**137**	**-0.036**	ug/L	0.002	5	443	49	43	Standard
⌈>	**Tb**	**159**		ug/L			2771891	2627691	0	Standard
⌈	**Tl**	**205**	**0.001**	ug/L	0.000	25	116	234	13	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	25	532	394	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 07:22:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1084314	1046666	1	Standard
	Be	**9**	**-0.001**	ug/L	0.001	239	13	10	60	Standard
	C	**13**		ug/L			30481	30756	1	Standard
	Cl	**37**		ug/L			8086439	7784248	0	Standard
>	**Sc**	**45**		ug/L			1349683	1255943	1	Standard
	V	**51**	**0.001**	ug/L	0.003	300	7438	6947	1	Standard
	V-1	**51**	**0.008**	ug/L	0.001	10	90	294	7	Standard
	Cr	**52**	**0.007**	ug/L	0.010	140	21824	20460	1	Standard
	Cr	**53**	**0.031**	ug/L	0.004	12	116	184	5	Standard
	Mn	**55**	**-0.035**	ug/L	0.001	1	1991	650	1	Standard
>	**Ge**	**72**		ug/L			89878	82994	0	KED
	Ni	**60**	**0.001**	ug/L	0.003	192	14	15	21	KED
	Ni	**62**	**-0.006**	ug/L	0.013	217	6	5	57	KED
	Cu	**63**	**-0.005**	ug/L	0.003	66	115	86	15	KED
	Cu	**65**	**-0.011**	ug/L	0.003	28	62	34	17	KED
	Zn	**66**	**-0.213**	ug/L	0.009	4	209	71	8	KED
	Zn	**67**	**-0.167**	ug/L	0.021	12	35	17	11	KED
	As	**75**	**-0.001**	ug/L	0.009	1269	3	3	71	KED
	Se	**78**	**0.030**	ug/L	0.110	370	12	12	26	KED
	Y	**89**		ug/L			830650	759922	0	Standard
	Kr	**83**		ug/L			62	55	19	Standard
>	**In-1**	**115**		ug/L			23226	21389	1	KED
	Cd	**111**	**-0.003**	ug/L	0.007	193	3	2	89	KED
	Cd	**114**	**0.002**	ug/L	0.002	124	2	3	51	KED
>	**In**	**115**		ug/L			1635078	1533601	1	Standard
	Ag	**107**	**-0.001**	ug/L	0.001	53	87	58	22	Standard
	Sb	**121**	**-0.013**	ug/L	0.001	6	387	69	27	Standard
	Sb	**123**	**-0.012**	ug/L	0.001	7	284	76	18	Standard
	Ba	**135**	**-0.036**	ug/L	0.002	4	264	32	32	Standard
	Ba	**137**	**-0.036**	ug/L	0.001	2	443	56	15	Standard
>	**Tb**	**159**		ug/L			2771891	2632882	0	Standard
	Tl	**205**	**0.000**	ug/L	0.000	38	116	139	7	Standard
	Pb	**208**	**-0.002**	ug/L	0.000	8	532	311	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 07:27:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\060122.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1084314	1044425	1	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	236	13	10	65	Standard
	C	**13**		ug/L			30481	30335	1	Standard
	Cl	**37**		ug/L			8086439	7771552	0	Standard
⌈>	**Sc**	**45**		ug/L			1349683	1249532	2	Standard
⌊	**V**	**51**	**0.001**	ug/L	0.002	215	7438	6914	2	Standard
⌊	**V-1**	**51**	**0.007**	ug/L	0.001	9	90	276	6	Standard
⌊	**Cr**	**52**	**0.003**	ug/L	0.009	345	21824	20263	2	Standard
⌊	**Cr**	**53**	**0.024**	ug/L	0.004	17	116	166	6	Standard
⌊	**Mn**	**55**	**-0.022**	ug/L	0.025	112	1991	1115	77	Standard
⌈>	**Ge**	**72**		ug/L			89878	82106	0	KED
⌊	**Ni**	**60**	**-0.002**	ug/L	0.004	148	14	10	47	KED
⌊	**Ni**	**62**	**-0.009**	ug/L	0.020	222	6	4	98	KED
⌊	**Cu**	**63**	**-0.006**	ug/L	0.004	71	115	81	21	KED
⌊	**Cu**	**65**	**-0.007**	ug/L	0.005	77	62	43	23	KED
⌊	**Zn**	**66**	**-0.208**	ug/L	0.007	3	209	73	5	KED
⌊	**Zn**	**67**	**-0.198**	ug/L	0.087	43	35	13	56	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.005	158	3	2	57	KED
⌊	**Se**	**78**	**0.061**	ug/L	0.054	88	12	13	12	KED
	Y	**89**		ug/L			830650	752358	4	Standard
	Kr	**83**		ug/L			62	62	21	Standard
⌈>	**In-1**	**115**		ug/L			23226	21201	1	KED
⌊	**Cd**	**111**	**-0.003**	ug/L	0.008	245	3	2	107	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	440	2	1	103	KED
⌈>	**In**	**115**		ug/L			1635078	1500461	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.002	1017	87	77	43	Standard
⌊	**Sb**	**121**	**-0.012**	ug/L	0.001	11	387	80	41	Standard
⌊	**Sb**	**123**	**-0.012**	ug/L	0.001	11	284	67	35	Standard
⌊	**Ba**	**135**	**-0.034**	ug/L	0.002	4	264	39	24	Standard
⌊	**Ba**	**137**	**-0.036**	ug/L	0.001	4	443	48	31	Standard
⌈>	**Tb**	**159**		ug/L			2771891	2611790	0	Standard
⌊	**Tl**	**205**	**0.001**	ug/L	0.000	28	116	161	8	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	22	532	349	9	Standard

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Calibration:	FF00014	Instrument:	ICPMS2
Calibration Date:	06/02/2022 14:58		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Cadmium-111	0	0	0.1	190	10	177	20	178.7	50	170.56	100	167.1
Cadmium-114	0	0	0.1	400	10	446.4	20	445.65	50	419.56	100	416.62
Zinc-66	0	0	6	291.5	10	292.4	20	287.2	50	273.84	100	264.61
Zinc-67	0	0	6	45.33333	10	45.7	20	48.95	50	46.5	100	44.72

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Calibration:	FF00014	Instrument:	ICPMS2
Calibration Date:	06/02/2022 14:58		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Cadmium-111	147.2267	49.3	0.9998		0.998	
Cadmium-114	354.705	49.2	0.9998		0.998	
Zinc-66	234.925	49.2	0.9996		0.998	
Zinc-67	38.53389	49.1	0.9994		0.998	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 6/2/22 **Analyst:** SD/MB **Sequence:** SKFØØ4Ø **Cal:** FFØØØ14

All corrections made by analyst unless otherwise noted. MB 6/2/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	SEQ-CAL1	—		
	↓	-CAL2	—		
		-CAL3	—		
		-CAL4	—		Sc, In, Tb noisy
		-CAL1	K5275		
		-CAL2	K4918		
		-CAL3	K4919		Tb sl. noisy - int + Analytes OK
		-CAL4	K4920		
		-CAL5	K5276		
		-CAL6	K4922		
		-IBL1	—		
		-ICV1	K3Ø2Ø		
		-ICB1	K5275		Li sl. noisy - %R + Analytes OK
		-CCV1	K5276		
		-CCB1	K5275		
		-CRL1	K4918		
		-IFA1	K4536		V^{-1}, Cr^{53} ↑
		-IFB1	K4864		↓
		-HCV1	K4841		Ge sl. noisy - %R + Analytes OK
	✓	-HCV2	~~K4537~~		Cu^{63}, Zn^{67} ↓
		-HCV2	K4537		
		-IBL2+3	—		
		-CCV2			
		-CCB2			

Analytical Resources, Incorporated
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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 6/2/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	SEQ-CAL1			
		-CCV3			
		-CCB3			
		BKFØØ5Ø-BLK1	REN		
		BKFØØ5Ø-BS1			
		BKFØØ52-BLK1			
		BKFØØ52-BS1			
		22EØ423-Ø1			
		22EØ426-Ø1			
		22EØ435-Ø1		2	
		22EØ442-Ø1			
		22EØ245-1Ø	SWN	20	Cd only
		SEQ-IBL4			(Cu↑)
		-CCV4			Se sl. noisy - int. OK
		-CCB4			Cal accidentally cleared - Re-loaded Cal + reprocessed inject
	✓	-CAL1			
		-CCV5			
		-CCB5			
		22EØ436-Ø2	REN		Li↑ - Not Needed
		-Ø3			
		-Ø4			
		-Ø5			
		-Ø6			
		-Ø1			Li↑ - Not Needed

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 6/2/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BKF00052-DUP1	REN		Li ↑ - NOT Needed / In noisy - % Rt Analytes OK / Match parent
		↓ -MS1	↓		↓ ↓
		22E0328-07	↓	2	Cd, Zn only
		SEQ-IBL5			
		-CCV6			Tl ↓
		↓ -CCB6			
		22E0328-01	REN		Cd only
		-02			
		-03			
		-04			
		-05			
		-06			
		-08			
		-09			
		↓ -10	↓		↓
		SEQ-IBL6			
		-CCV7			Tl ↓
		↓ -CCB7			
		BKF0021-BLK1	SWN	20	NO Ni62
		↓ -BS1	↓	↓	↓
		BKF0038-BLK1			NO Ni62, Tl
		↓ -BS1			↓
		22E0303-01			
		↓ -03	↓	↓	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 6/2/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 6/2/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22EΦ3Φ6-Φ4	REN	2	✓ only
		~~BKE~~BKFΦΦ22-DUP4	↓	↓	↓
		BKFΦΦ22-MS4	↓	↓	↓
		SEQ-IBL7			
		-CCV8			Ni 62 ↓
		-CCB8			
	✓	-CAL1			
		-CCV9			Ge noisy/Tl ↓
		-CCB9			
		22EΦ3Φ3-Φ4	SWN	20	No Ag, Co, Ni, Se, Zn
		-Φ5	↓	↓	↓
		-Φ6	↓	↓	In-1 std noisy - %R + Analytes OK
		22EΦ438-Φ1	↓	↓	+ Tl
		-Φ2	↓	↓	Zn ↑
		-Φ3	↓	↓	Ge noisy
	✓	22EΦ366-Φ3	↓	↓	Pb ↑
	✓	BKFΦΦ21-DUP1	↓	↓	
	✓	-MS1	↓	↓	std mode noisy
		SEQ-IBL8			
		-CCVA			Tl ↓
		-CCBA			
		22EΦ356-Φ1	REN		Li ↑ - Not Needed — Cd, Cr, Pb only
		22EΦ357-Φ1	↓		↓
		22EΦ358-Φ1	↓	5	↓

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 6/2/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 6/2/22

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22EØ31Ø-Ø1	REN	100	As↑ Ag, Cd, Cr, Pb only
		SEQ-IBL9			
		22EØ371-Ø1	SWN	20	Ge noisy No As, Cu, Ni, Se, Tl, Zn
		BKFØØ38-DUP1			
		-MS1			-(Clog?)↑
		-MSD1			Sb %R LOW
		SEQ-IBLA			
		-CCVB			/Se, Tl↓
		-CCBB			
		BKFØØ51-BLK1	REN		Cr only
		-BS1			
	✓	22EØ3Ø9-Ø1			
	✓	-Ø3			
	✓	-Ø5			
	✓	-Ø7			
	✓	22EØ312-Ø8			
		22EØ3Ø8-Ø1		20	Cd, Cr, Pb only
	✓	22EØ4ØØ-19	SWN		/Ge↓ (Zn↑↑)
		SEQ-IBLB			(Zn↑)
		-CCVC			(Zn↓)
		-CCBC			/Ge↓
	✓	-CAL1			
		-CCVD			/Li, Se, In, Tb %R ↓ Sl. noisy - Analytes OK
		-CCBD			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 6/2/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22E0366-02	SWN	20	Ge noisy / Ag, Cd, Cr only
		-04			
		-07			
		-08			/ Cd^{114} noisy / Cu, Zn ↑ / Ag, Cr only
		-09			/ Cu, Pb, Zn ↑ / Ag, Cd, Cr only
	✓	-10			/ Se, In, Tb noisy / Sl. noisy
		-12			Ge ↑ / Zn ↑ / Ag, Cd, Cr only
		-14			
		22E0371-02			
		SEQ-IBLC			
		-CCVE			Zn, Tl, Pb ↓
		-CCBE			
		22E0371-03	SWN	20	Se noisy / In^{+1} sl. noisy - % RE Analytes OK / Ag, As, Cd, Cr only
		-04			Cd^{111} noisy / Ag, As, Cr, Se only
		-05			Ag, As, Cd, Cr, Se only
		-07			
		-08			In^{+1} + Cd noisy / Ag, As, Cr, Se only
		22E0306-01	REN		Ag, Cd, Cr only
		BKF0050-DUP1			
		-MS1			
		-MSD1			
		SEQ-IBLD			(Std mode noisy)
		-CCVF			Ni^{62}, Cu^{63}, Zn, Tl, Pb ↓
		-CCBF			

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ICP/MS 02 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 81DN1050201

Analysis Date: 6/2/22 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		22EØ3Ø6-Ø5	REN		
		-Ø7			
		-Ø9			
		-19			
		-21			
		-23			
		-25			
		-27			
		-17		5	
		SEQ-IBLE			
		-CCVG			Ni, Cu63, Zn, Tl ↓
		-CCBG			
		22EØ3Ø6-Ø3	REN	2	
		-29			
		-31			
		22EØ313-Ø6		10	Ge noisy Cr only
		-Ø5			
		-Ø1			
		-Ø2			Cr only
		BKFØØ51-DUP1			
		-MS1			As noisy
		SEQ-IBLF			
		-CCVH			Ni, Cu, Zn, Tl, Pb ↓
		-CCBH			

Rinse/DI

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, June 02, 2022 13:16:11
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4424
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	12115.5	12115.470	214.528	1.8	Standard
	In	114.9	101504.6	-1114193.826	1053.664	0.1	Standard
	U	238.1	70052.3	70052.285	734.678	1.0	Standard
⌈	CeO	155.9	2343.5	0.027	0.002	5.9	Standard
| >	Ce	139.9	85545.7	85545.705	384.056	0.4	Standard
⌊	Ce++	70.0	2340.7	0.027	0.000	1.5	Standard
	Bkgd	220.0	0.0	0.033	0.075	223.6	Standard

Current Conditions File Data

Current Value	Description
1.08	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1400.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.08	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 6/2/2022 1:16:05 PM
End Time: 6/2/2022 1:24:27 PM

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 12115.47
Obtained Intensity (In 115): 101504.63
Obtained Intensity (U 238): 70052.28
Obtained Intensity (Bkgd 220): 0.03
Obtained Formula (Ce++ 70 / Ce 140): 0.027 (=2340.66 / 85545.71)
Obtained Formula (CeO 156 / Ce 140): 0.027 (=2343.46 / 85545.71) - <Target not achieved>
Obtained RSD (Be 9): 0.0177
Obtained RSD (In 115): 0.0009
Obtained RSD (U 238): 0.0105

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.06 mm	-1.06 mm	87186.24

SmartTune Wizard - Details

```
Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 6/2/2022 1:16:05 PM

STD Performance Check
        Optimization Settings:
                Method: STD Performance Check.mth.
                Intensity Criterion: Be 9 > 2000
                Intensity Criterion: In 115 > 40000
                Intensity Criterion: U 238 > 30000
                Intensity Criterion: Bkgd 220 <= 1
                Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
                Formula Criterion: CeO 156 / Ce 140 <= 0.025
                RSD Criterion: Be 9.0122 < 0.05
                RSD Criterion: In 114.904 < 0.05
                RSD Criterion: U 238.05 < 0.05

        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 12115.47
                Obtained Intensity (In 115): 101504.63
                Obtained Intensity (U 238): 70052.28
                Obtained Intensity (Bkgd 220): 0.03
                Obtained Formula (Ce++ 70 / Ce 140): 0.027 (=2340.66 / 85545.71)
                Obtained Formula (CeO 156 / Ce 140): 0.027 (=2343.46 / 85545.71) - <Target not achieved>
                Obtained RSD (Be 9): 0.0177
                Obtained RSD (In 115): 0.0009
                Obtained RSD (U 238): 0.0105

                [Failed]
[Failed]

Torch Alignment
        Optimization Settings:
                Method: Torch Alignment.mth.
                Intensity Criterion: In 115 Maximum

        Optimization Results:
                Vertical      Horizontal      Intensity
[Passed]        0.06 mm     -1.06 mm       87186.24

End Time: 6/2/2022 1:24:27 PM
```

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 6/2/2022 1:24:36 PM
End Time: 6/2/2022 1:31:16 PM

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
-0.07 mm	-0.86 mm	88910.82

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 1.07
Obtained Intensity (In 115): 80499.17
Obtained Formula (CeO 156 / Ce 140): 0.0202 (=1322.06 / 65585.20)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.694)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.685)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.689)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.704)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.988; Intercept = -13.35

SmartTune Wizard - Details

```
Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 6/2/2022 1:24:36 PM

Torch Alignment
        Optimization Settings:
                Method: Torch Alignment.mth.
                Intensity Criterion: In 115 Maximum

        Optimization Results:
                Vertical      Horizontal      Intensity
[Passed]        -0.07 mm     -0.86 mm       88910.82

Nebulizer Gas Flow STD/KED [NEB]
        Optimization Settings:
                Method: Optimize.mth.
                        Initial Try - Start/End/Step: 1/1.1/0.01.
                Intensity Criterion: In 115 Maximum
                Formula Criterion: CeO 156 / Ce 140 <= 0.025

        Optimization Results:
        Initial Try

                Obtained Intensity (In 115): 80499.17
                Obtained Formula (CeO 156 / Ce 140): 0.0202 (=1322.06 / 65585.20)
[Passed]  Optimum value(s): 1.07

Mass Calibration and Resolution
        Optimization Settings:
                Method: Tuning.mth.
                MassCal File: Default.tun
                Iterations: 6
                Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
                Peak height (%) for Res. Opt.: 10

        Optimization Results:
        Initial Try
                Target/Obtained mass (7.016/7.075), Target/Obtained resolution (0.7/0.678) - <Target not achieved>
                Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.691)
                Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.689)
                Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.688)
                [Failed]
        Retry 1
                Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.694)
                Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.685)
                Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.689)
                Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.704)
[Passed]  Optimum value(s): N/A

QID STD/DRC
        Optimization Settings:
                Method: QID Calibration.mth.
                        Initial Try - Start/End/Step: -20/0/0.5.
```

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.988; Intercept = -13.35

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13.5	36562.7
Mg	24	41	-13	48538.3
In	115	41	-9.5	89491.4
Ce	140	41	-7.5	81962.5
Pb	208	41	-7	39955.8
U	238	41	-7	66108.6

End Time: 6/2/2022 1:31:16 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, June 02, 2022 13:34:25
Sample Description:
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth
Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.4433
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.50

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	9481.1	9481.079	116.910	1.2	Standard
	In	114.9	86929.7	86929.708	911.080	1.0	Standard
	U	238.1	65682.7	65682.721	333.228	0.5	Standard
⌈	CeO	155.9	1557.3	0.020	0.001	2.9	Standard
| >	Ce	139.9	79333.1	79333.139	206.587	0.3	Standard
⌊	Ce++	70.0	1492.4	0.019	0.000	1.9	Standard
	Bkgd	220.0	0.1	0.067	0.149	223.6	Standard

Current Conditions File Data

Current Value	Description
1.07	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-11.25	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1400.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
12.00	Discriminator Threshold
-4.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
1.07	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-16.50	KED Mode CRO
-12.00	KED Mode QRO
-4.00	KED Mode Cell Entrance Voltage
-39.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
5.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 6/2/2022 1:31:33 PM
End Time: 6/2/2022 1:36:29 PM

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.997; Intercept = -12.74

KED Mode QID - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -13.06

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 9481.08
Obtained Intensity (In 115): 86929.71
Obtained Intensity (U 238): 65682.72
Obtained Intensity (Bkgd 220): 0.07
Obtained Formula (Ce++ 70 / Ce 140): 0.019 (=1492.41 / 79333.14)
Obtained Formula (CeO 156 / Ce 140): 0.020 (=1557.28 / 79333.14)
Obtained RSD (Be 9): 0.0123
Obtained RSD (In 115): 0.0105
Obtained RSD (U 238): 0.0051

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 6/2/2022 1:31:33 PM

QID STD/DRC

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.997; Intercept = -12.74

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13	37152.2
Mg	24	41	-13	47559
In	115	41	-9.5	88251.8
Ce	140	41	-8	81902.1
Pb	208	41	-7	38291.2
U	238	41	-7	65602.3

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 1.000; Intercept = -13.06

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-13.5	25811.3
Mg	24	41	-14	30167.8
In	115	41	-10	53632.5
Ce	140	41	-8.5	64722.3
Pb	208	41	-6	32500.9
U	238	41	-5.5	50713.9

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.

Intensity Criterion: Be 9 > 2000

Intensity Criterion: In 115 > 40000

Intensity Criterion: U 238 > 30000

Intensity Criterion: Bkgd 220 <= 1

Formula Criterion: Ce++ 70 / Ce 140 <= 0.03

Formula Criterion: CeO 156 / Ce 140 <= 0.025

RSD Criterion: Be 9.0122 < 0.05

RSD Criterion: In 114.904 < 0.05

RSD Criterion: U 238.05 < 0.05

```
        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 9481.08
                Obtained Intensity (In 115): 86929.71
                Obtained Intensity (U 238): 65682.72
                Obtained Intensity (Bkgd 220): 0.07
                Obtained Formula (Ce++ 70 / Ce 140): 0.019 (=1492.41 / 79333.14)
                Obtained Formula (CeO 156 / Ce 140): 0.020 (=1557.28 / 79333.14)
                Obtained RSD (Be 9): 0.0123
                Obtained RSD (In 115): 0.0105
                Obtained RSD (U 238): 0.0051

[Passed]  Optimum value(s): N/A

End Time: 6/2/2022 1:36:29 PM
```

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 14:31:55

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L				1308799	0	Standard
⌊	Be	9		ug/L				12	9	Standard
	C	13		ug/L				24683	4	Standard
	Cl	37		ug/L				5061322	1	Standard
⌈>	Sc	45		ug/L				1315508	1	Standard
|	V	51		ug/L				6931	1	Standard
|	V-1	51		ug/L				69	17	Standard
|	Cr	52		ug/L				20463	1	Standard
⌊	Cr	53		ug/L				117	10	Standard
⌈>	Ge	72		ug/L				41055	4	KED
|	Ni	60		ug/L				10	26	KED
|	Ni	62		ug/L				3	50	KED
|	Cu	63		ug/L				40	31	KED
|	Cu	65		ug/L				27	35	KED
|	Zn	66		ug/L				14	27	KED
|	Zn	67		ug/L				1	173	KED
|	As	75		ug/L				8	18	KED
⌊	Se	78		ug/L				5	13	KED
	Y	89		ug/L				718723	2	Standard
	Kr	83		ug/L				57	5	Standard
⌈>	In-1	115		ug/L				11494	3	KED
|	Cd	111		ug/L				2	65	KED
⌊	Cd	114		ug/L				5	57	KED
⌈>	In	115		ug/L				1123460	0	Standard
|	Ag	107		ug/L				53	5	Standard
|	Sb	121		ug/L				55	12	Standard
|	Sb	123		ug/L				51	9	Standard
|	Ba	135		ug/L				40	8	Standard
⌊	Ba	137		ug/L				52	27	Standard
⌈>	Tb	159		ug/L				1667710	1	Standard
|	Tl	205		ug/L				39	39	Standard
⌊	Pb	208		ug/L				129	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, June 02, 2022 14:36:48
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1308799	1277005	1	Standard
⌊	**Be**	**9**	**0.200**	ug/L	0.012	5	12	1391	4	Standard
	C	**13**		ug/L			24683	29287	0	Standard
	Cl	**37**		ug/L			5061322	5118224	2	Standard
⌈>	**Sc**	**45**		ug/L			1315508	1313454	0	Standard
|	**V**	**51**	**0.200**	ug/L	0.003	1	6931	11647	1	Standard
|	**V-1**	**51**	**0.200**	ug/L	0.001	0	69	5082	1	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.023	4	20463	31122	1	Standard
⌊	**Cr**	**53**	**0.500**	ug/L	0.016	3	117	1417	2	Standard
⌈>	**Ge**	**72**		ug/L			41055	41355	1	KED
|	**Ni**	**60**	**0.500**	ug/L	0.015	2	10	468	3	KED
|	**Ni**	**62**	**0.500**	ug/L	0.152	30	3	71	28	KED
|	**Cu**	**63**	**0.500**	ug/L	0.005	1	40	1426	0	KED
|	**Cu**	**65**	**0.500**	ug/L	0.032	6	27	715	6	KED
|	**Zn**	**66**	**6.000**	ug/L	0.062	1	14	1782	0	KED
|	**Zn**	**67**	**6.000**	ug/L	0.319	5	1	289	5	KED
|	**As**	**75**	**0.200**	ug/L	0.036	18	8	33	13	KED
⌊	**Se**	**78**	**0.500**	ug/L	0.178	35	5	13	20	KED
	Y	**89**		ug/L			718723	731373	1	Standard
	Kr	**83**		ug/L			57	46	30	Standard
⌈>	**In-1**	**115**		ug/L			11494	11419	1	KED
|	**Cd**	**111**	**0.100**	ug/L	0.030	30	2	26	25	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.007	6	5	46	6	KED
⌈>	**In**	**115**		ug/L			1123460	1123691	0	Standard
|	**Ag**	**107**	**0.200**	ug/L	0.004	2	53	3570	1	Standard
|	**Sb**	**121**	**0.200**	ug/L	0.004	2	55	2816	2	Standard
|	**Sb**	**123**	**0.200**	ug/L	0.011	5	51	2133	5	Standard
|	**Ba**	**135**	**0.500**	ug/L	0.019	3	40	2195	4	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.017	3	52	3789	3	Standard
⌈>	**Tb**	**159**		ug/L			1667710	1705116	2	Standard
|	**Tl**	**205**	**0.200**	ug/L	0.008	3	39	7696	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.003	3	129	5643	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 14:41:42

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1308799	1271827	1	Standard
⌊	**Be**	**9**	**10.000**	ug/L	0.379	3	12	71051	2	Standard
	C	**13**		ug/L			24683	35071	0	Standard
	Cl	**37**		ug/L			5061322	5232736	2	Standard
⌈>	**Sc**	**45**		ug/L			1315508	1313154	1	Standard
|	**V**	**51**	**10.000**	ug/L	0.065	0	6931	260017	2	Standard
|	**V-1**	**51**	**10.000**	ug/L	0.053	0	69	256291	1	Standard
|	**Cr**	**52**	**10.001**	ug/L	0.106	1	20463	240774	1	Standard
⌊	**Cr**	**53**	**10.000**	ug/L	0.136	1	117	26016	0	Standard
⌈>	**Ge**	**72**		ug/L			41055	40731	0	KED
|	**Ni**	**60**	**9.999**	ug/L	0.196	1	10	8772	1	KED
|	**Ni**	**62**	**10.001**	ug/L	0.580	5	3	1391	6	KED
|	**Cu**	**63**	**10.000**	ug/L	0.194	1	40	27143	2	KED
|	**Cu**	**65**	**10.000**	ug/L	0.147	1	27	13620	1	KED
|	**Zn**	**66**	**10.163**	ug/L	0.269	2	14	3103	3	KED
|	**Zn**	**67**	**10.096**	ug/L	1.350	13	1	492	13	KED
|	**As**	**75**	**10.000**	ug/L	0.141	1	8	1433	2	KED
⌊	**Se**	**78**	**9.999**	ug/L	0.351	3	5	153	2	KED
	Y	**89**		ug/L			718723	730910	1	Standard
	Kr	**83**		ug/L			57	48	5	Standard
⌈>	**In-1**	**115**		ug/L			11494	11584	1	KED
|	**Cd**	**111**	**10.000**	ug/L	0.288	2	2	1819	1	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.088	0	5	4621	0	KED
⌈>	**In**	**115**		ug/L			1123460	1124832	0	Standard
|	**Ag**	**107**	**10.000**	ug/L	0.159	1	53	185772	1	Standard
|	**Sb**	**121**	**10.000**	ug/L	0.173	1	55	141403	1	Standard
|	**Sb**	**123**	**10.000**	ug/L	0.200	1	51	107277	1	Standard
|	**Ba**	**135**	**10.000**	ug/L	0.185	1	40	44043	1	Standard
⌊	**Ba**	**137**	**10.001**	ug/L	0.186	1	52	77228	1	Standard
⌈>	**Tb**	**159**		ug/L			1667710	1691867	1	Standard
|	**Tl**	**205**	**10.000**	ug/L	0.304	3	39	394324	1	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.349	3	129	525336	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 14:46:50

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			1308799	1187802	6	Standard
	Be	9	20.207	ug/L	1.461	7	12	139476	0	Standard
	C	13		ug/L			24683	32398	2	Standard
	Cl	37		ug/L			5061322	5200274	1	Standard
>	Sc	45		ug/L			1315508	1239802	8	Standard
	V	51	20.291	ug/L	1.556	7	6931	519096	1	Standard
	V-1	51	20.295	ug/L	1.599	7	69	519491	0	Standard
	Cr	52	20.248	ug/L	1.736	8	20463	460287	0	Standard
	Cr	53	20.263	ug/L	1.865	9	117	52139	0	Standard
>	Ge	72		ug/L			41055	40539	1	KED
	Ni	60	20.086	ug/L	0.208	1	10	17837	2	KED
	Ni	62	20.196	ug/L	0.515	2	3	2905	2	KED
	Cu	63	19.939	ug/L	0.178	0	40	53175	1	KED
	Cu	65	19.937	ug/L	0.150	0	27	26663	1	KED
	Zn	66	19.904	ug/L	0.576	2	14	5951	3	KED
	Zn	67	20.124	ug/L	0.333	1	1	993	2	KED
	As	75	20.066	ug/L	0.435	2	8	2891	1	KED
	Se	78	19.844	ug/L	1.277	6	5	288	5	KED
	Y	89		ug/L			718723	704363	6	Standard
	Kr	83		ug/L			57	48	4	Standard
>	In-1	115		ug/L			11494	11469	3	KED
	Cd	111	19.978	ug/L	0.578	2	2	3580	1	KED
	Cd	114	19.850	ug/L	0.310	1	5	8812	1	KED
>	In	115		ug/L			1123460	1075025	7	Standard
	Ag	107	20.105	ug/L	2.039	10	53	362595	1	Standard
	Sb	121	20.225	ug/L	1.907	9	55	284721	1	Standard
	Sb	123	20.221	ug/L	1.706	8	51	215895	0	Standard
	Ba	135	20.311	ug/L	1.610	7	40	90732	0	Standard
	Ba	137	20.253	ug/L	1.839	9	52	156617	1	Standard
>	Tb	159		ug/L			1667710	1638718	8	Standard
	Tl	205	20.168	ug/L	1.671	8	39	793729	0	Standard
	Pb	208	20.154	ug/L	1.933	9	129	1052825	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 14:58:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L				1266893	1	Standard
⌊	**Be**	**9**		ug/L				13	20	Standard
	C	**13**		ug/L				23384	2	Standard
	Cl	**37**		ug/L				5284714	1	Standard
⌈>	**Sc**	**45**		ug/L				1301616	1	Standard
|	**V**	**51**		ug/L				6934	1	Standard
|	**V-1**	**51**		ug/L				79	15	Standard
|	**Cr**	**52**		ug/L				20424	1	Standard
⌊	**Cr**	**53**		ug/L				115	1	Standard
⌈>	**Ge**	**72**		ug/L				39963	1	KED
|	**Ni**	**60**		ug/L				8	48	KED
|	**Ni**	**62**		ug/L				4	24	KED
|	**Cu**	**63**		ug/L				45	6	KED
|	**Cu**	**65**		ug/L				19	33	KED
|	**Zn**	**66**		ug/L				22	30	KED
|	**Zn**	**67**		ug/L				4	107	KED
|	**As**	**75**		ug/L				6	14	KED
⌊	**Se**	**78**		ug/L				8	32	KED
	Y	**89**		ug/L				719839	0	Standard
	Kr	**83**		ug/L				40	5	Standard
⌈>	**In-1**	**115**		ug/L				11208	1	KED
|	**Cd**	**111**		ug/L				3	41	KED
⌊	**Cd**	**114**		ug/L				2	118	KED
⌈>	**In**	**115**		ug/L				1119178	1	Standard
|	**Ag**	**107**		ug/L				91	14	Standard
|	**Sb**	**121**		ug/L				576	9	Standard
|	**Sb**	**123**		ug/L				418	3	Standard
|	**Ba**	**135**		ug/L				28	17	Standard
⌊	**Ba**	**137**		ug/L				52	25	Standard
⌈>	**Tb**	**159**		ug/L				1692164	1	Standard
|	**Tl**	**205**		ug/L				150	13	Standard
⌊	**Pb**	**208**		ug/L				149	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 15:03:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1266893	1244491	1	Standard
⌊	**Be**	**9**	**0.200**	ug/L	0.017	8	13	1299	7	Standard
	C	**13**		ug/L			23384	28048	4	Standard
	Cl	**37**		ug/L			5284714	5227157	0	Standard
⌈>	**Sc**	**45**		ug/L			1301616	1264264	1	Standard
|	**V**	**51**	**0.200**	ug/L	0.008	3	6934	11988	1	Standard
|	**V-1**	**51**	**0.200**	ug/L	0.004	1	79	4989	1	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.020	4	20424	31453	0	Standard
⌊	**Cr**	**53**	**0.500**	ug/L	0.009	1	115	1315	0	Standard
⌈>	**Ge**	**72**		ug/L			39963	39271	2	KED
|	**Ni**	**60**	**0.500**	ug/L	0.007	1	8	406	0	KED
|	**Ni**	**62**	**0.500**	ug/L	0.047	9	4	73	10	KED
|	**Cu**	**63**	**0.500**	ug/L	0.024	4	45	1313	2	KED
|	**Cu**	**65**	**0.500**	ug/L	0.017	3	19	643	1	KED
|	**Zn**	**66**	**6.000**	ug/L	0.172	2	22	1749	0	KED
|	**Zn**	**67**	**6.000**	ug/L	0.265	4	4	272	2	KED
|	**As**	**75**	**0.200**	ug/L	0.017	8	6	32	8	KED
⌊	**Se**	**78**	**0.500**	ug/L	0.179	35	8	13	13	KED
	Y	**89**		ug/L			719839	709305	0	Standard
	Kr	**83**		ug/L			40	44	17	Standard
⌈>	**In-1**	**115**		ug/L			11208	11407	3	KED
|	**Cd**	**111**	**0.100**	ug/L	0.024	23	3	19	18	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.026	25	2	40	22	KED
⌈>	**In**	**115**		ug/L			1119178	1106698	0	Standard
|	**Ag**	**107**	**0.200**	ug/L	0.004	2	91	3507	1	Standard
|	**Sb**	**121**	**0.200**	ug/L	0.007	3	576	2936	2	Standard
|	**Sb**	**123**	**0.200**	ug/L	0.003	1	418	2293	0	Standard
|	**Ba**	**135**	**0.500**	ug/L	0.013	2	28	2196	1	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.016	3	52	3833	2	Standard
⌈>	**Tb**	**159**		ug/L			1692164	1667838	1	Standard
|	**Tl**	**205**	**0.200**	ug/L	0.007	3	150	7737	2	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.002	2	149	5645	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 15:07:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1266893	1225470	5	Standard
⌊	**Be**	**9**	**10.000**	ug/L	0.505	5	13	68996	0	Standard
	C	**13**		ug/L			23384	46454	0	Standard
	Cl	**37**		ug/L			5284714	5373539	0	Standard
⌈>	**Sc**	**45**		ug/L			1301616	1271741	2	Standard
⌈	**V**	**51**	**10.000**	ug/L	0.165	1	6934	256607	2	Standard
⌈	**V-1**	**51**	**10.000**	ug/L	0.151	1	79	251708	1	Standard
⌈	**Cr**	**52**	**9.998**	ug/L	0.263	2	20424	236665	3	Standard
⌊	**Cr**	**53**	**10.001**	ug/L	0.191	1	115	25176	2	Standard
⌈>	**Ge**	**72**		ug/L			39963	39888	2	KED
⌈	**Ni**	**60**	**10.001**	ug/L	0.094	0	8	8570	3	KED
⌈	**Ni**	**62**	**10.000**	ug/L	0.125	1	4	1407	3	KED
⌈	**Cu**	**63**	**10.000**	ug/L	0.122	1	45	25901	1	KED
⌈	**Cu**	**65**	**10.000**	ug/L	0.095	0	19	12929	1	KED
⌈	**Zn**	**66**	**9.979**	ug/L	0.256	2	22	2924	3	KED
⌈	**Zn**	**67**	**10.000**	ug/L	1.069	10	4	457	8	KED
⌈	**As**	**75**	**10.000**	ug/L	0.298	2	6	1398	0	KED
⌊	**Se**	**78**	**10.008**	ug/L	0.526	5	8	145	3	KED
	Y	**89**		ug/L			719839	706287	2	Standard
	Kr	**83**		ug/L			40	48	21	Standard
⌈>	**In-1**	**115**		ug/L			11208	11487	1	KED
⌈	**Cd**	**111**	**10.000**	ug/L	0.122	1	3	1770	1	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.168	1	2	4464	2	KED
⌈>	**In**	**115**		ug/L			1119178	1103305	2	Standard
⌈	**Ag**	**107**	**10.000**	ug/L	0.331	3	91	177624	1	Standard
⌈	**Sb**	**121**	**10.001**	ug/L	0.295	2	576	139163	1	Standard
⌈	**Sb**	**123**	**10.000**	ug/L	0.188	1	418	105888	0	Standard
⌈	**Ba**	**135**	**10.000**	ug/L	0.268	2	28	43025	0	Standard
⌊	**Ba**	**137**	**10.000**	ug/L	0.185	1	52	76098	0	Standard
⌈>	**Tb**	**159**		ug/L			1692164	1653669	6	Standard
⌈	**Tl**	**205**	**10.000**	ug/L	0.668	6	150	383431	0	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.536	5	149	503277	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 15:13:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1266893	1250587	0	Standard
⌊	**Be**	**9**	**19.904**	ug/L	0.455	2	13	137765	2	Standard
	C	**13**		ug/L			23384	44633	1	Standard
	Cl	**37**		ug/L			5284714	5304050	1	Standard
⌈>	**Sc**	**45**		ug/L			1301616	1286965	2	Standard
⌈	**V**	**51**	**19.991**	ug/L	0.336	1	6934	511299	2	Standard
⌈	**V-1**	**51**	**20.001**	ug/L	0.350	1	79	509448	2	Standard
⌈	**Cr**	**52**	**19.908**	ug/L	0.264	1	20424	448908	1	Standard
⌊	**Cr**	**53**	**19.944**	ug/L	0.334	1	115	50134	1	Standard
⌈>	**Ge**	**72**		ug/L			39963	39802	1	KED
⌈	**Ni**	**60**	**19.971**	ug/L	0.771	3	8	16966	2	KED
⌈	**Ni**	**62**	**20.021**	ug/L	0.154	0	4	2818	0	KED
⌈	**Cu**	**63**	**19.968**	ug/L	0.227	1	45	51238	0	KED
⌈	**Cu**	**65**	**19.937**	ug/L	0.417	2	19	25379	1	KED
⌈	**Zn**	**66**	**19.930**	ug/L	0.839	4	22	5744	3	KED
⌈	**Zn**	**67**	**20.365**	ug/L	1.341	6	4	979	5	KED
⌈	**As**	**75**	**19.969**	ug/L	0.426	2	6	2763	0	KED
⌊	**Se**	**78**	**20.220**	ug/L	0.915	4	8	296	3	KED
	Y	**89**		ug/L			719839	717726	2	Standard
	Kr	**83**		ug/L			40	52	8	Standard
⌈>	**In-1**	**115**		ug/L			11208	11401	0	KED
⌈	**Cd**	**111**	**20.071**	ug/L	0.605	3	3	3574	3	KED
⌊	**Cd**	**114**	**20.024**	ug/L	0.155	0	2	8913	0	KED
⌈>	**In**	**115**		ug/L			1119178	1115998	0	Standard
⌈	**Ag**	**107**	**19.968**	ug/L	0.200	1	91	356589	1	Standard
⌈	**Sb**	**121**	**19.956**	ug/L	0.050	0	576	278008	0	Standard
⌈	**Sb**	**123**	**19.953**	ug/L	0.098	0	418	211365	0	Standard
⌈	**Ba**	**135**	**19.977**	ug/L	0.521	2	28	86536	1	Standard
⌊	**Ba**	**137**	**19.954**	ug/L	0.310	1	52	152206	1	Standard
⌈>	**Tb**	**159**		ug/L			1692164	1699881	1	Standard
⌈	**Tl**	**205**	**19.865**	ug/L	0.493	2	150	764123	0	Standard
⌊	**Pb**	**208**	**19.875**	ug/L	0.563	2	149	1005017	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 15:18:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1266893	1165751	1	Standard
⌊	**Be**	**9**	**50.045**	ug/L	0.616	1	13	324351	2	Standard
	C	**13**		ug/L			23384	24664	1	Standard
	Cl	**37**		ug/L			5284714	5298638	1	Standard
⌈>	**Sc**	**45**		ug/L			1301616	1261714	1	Standard
⌈	**V**	**51**	**49.641**	ug/L	0.929	1	6934	1192455	2	Standard
⌈	**V-1**	**51**	**49.710**	ug/L	0.699	1	79	1206479	2	Standard
⌈	**Cr**	**52**	**49.742**	ug/L	1.123	2	20424	1043723	2	Standard
⌊	**Cr**	**53**	**49.956**	ug/L	0.455	0	115	122425	1	Standard
⌈>	**Ge**	**72**		ug/L			39963	38303	1	KED
⌈	**Ni**	**60**	**49.774**	ug/L	0.815	1	8	39788	1	KED
⌈	**Ni**	**62**	**49.963**	ug/L	1.353	2	4	6734	1	KED
⌈	**Cu**	**63**	**49.932**	ug/L	0.536	1	45	122395	0	KED
⌈	**Cu**	**65**	**49.858**	ug/L	1.240	2	19	60193	1	KED
⌈	**Zn**	**66**	**49.906**	ug/L	1.217	2	22	13692	2	KED
⌈	**Zn**	**67**	**50.072**	ug/L	3.809	7	4	2325	7	KED
⌈	**As**	**75**	**50.038**	ug/L	0.910	1	6	6680	0	KED
⌊	**Se**	**78**	**49.429**	ug/L	1.726	3	8	649	2	KED
	Y	**89**		ug/L			719839	699647	1	Standard
	Kr	**83**		ug/L			40	59	12	Standard
⌈>	**In-1**	**115**		ug/L			11208	10941	1	KED
⌈	**Cd**	**111**	**49.991**	ug/L	1.343	2	3	8528	1	KED
⌊	**Cd**	**114**	**49.851**	ug/L	0.792	1	2	20978	1	KED
⌈>	**In**	**115**		ug/L			1119178	1073448	2	Standard
⌈	**Ag**	**107**	**49.921**	ug/L	1.319	2	91	850226	0	Standard
⌈	**Sb**	**121**	**49.967**	ug/L	1.842	3	576	666048	0	Standard
⌈	**Sb**	**123**	**49.987**	ug/L	1.917	3	418	507671	0	Standard
⌈	**Ba**	**135**	**50.089**	ug/L	2.178	4	28	210383	1	Standard
⌊	**Ba**	**137**	**50.026**	ug/L	2.190	4	52	367587	1	Standard
⌈>	**Tb**	**159**		ug/L			1692164	1671123	0	Standard
⌈	**Tl**	**205**	**49.610**	ug/L	0.515	1	150	1805754	0	Standard
⌊	**Pb**	**208**	**49.757**	ug/L	0.971	1	149	2415091	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 15:25:17
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1266893	1114965	2	Standard
⌊	**Be**	**9**	**100.332**	ug/L	0.197	0	13	628837	2	Standard
	C	**13**		ug/L			23384	31063	1	Standard
	Cl	**37**		ug/L			5284714	5123534	0	Standard
⌈>	**Sc**	**45**		ug/L			1301616	1224348	2	Standard
|	**V**	**51**	**100.172**	ug/L	1.572	1	6934	2341160	1	Standard
|	**V-1**	**51**	**100.259**	ug/L	1.820	1	79	2380984	0	Standard
|	**Cr**	**52**	**100.116**	ug/L	1.222	1	20424	2026563	1	Standard
⌊	**Cr**	**53**	**100.392**	ug/L	1.846	1	115	241737	1	Standard
⌈>	**Ge**	**72**		ug/L			39963	36884	2	KED
|	**Ni**	**60**	**100.617**	ug/L	1.511	1	8	79061	1	KED
|	**Ni**	**62**	**100.555**	ug/L	2.068	2	4	13296	3	KED
|	**Cu**	**63**	**100.453**	ug/L	0.519	0	45	240727	2	KED
|	**Cu**	**65**	**100.099**	ug/L	1.772	1	19	116744	2	KED
|	**Zn**	**66**	**100.058**	ug/L	1.655	1	22	26461	1	KED
|	**Zn**	**67**	**100.034**	ug/L	5.818	5	4	4472	3	KED
|	**As**	**75**	**100.874**	ug/L	1.806	1	6	13350	1	KED
⌊	**Se**	**78**	**100.894**	ug/L	1.521	1	8	1306	1	KED
	Y	**89**		ug/L			719839	677785	2	Standard
	Kr	**83**		ug/L			40	59	19	Standard
⌈>	**In-1**	**115**		ug/L			11208	10557	0	KED
|	**Cd**	**111**	**100.345**	ug/L	0.066	0	3	16710	0	KED
⌊	**Cd**	**114**	**100.593**	ug/L	2.651	2	2	41662	1	KED
⌈>	**In**	**115**		ug/L			1119178	1037964	2	Standard
|	**Ag**	**107**	**100.096**	ug/L	3.151	3	91	1653749	1	Standard
|	**Sb**	**121**	**100.521**	ug/L	1.628	1	576	1318704	1	Standard
|	**Sb**	**123**	**100.645**	ug/L	1.857	1	418	1010237	1	Standard
|	**Ba**	**135**	**100.946**	ug/L	2.687	2	28	423503	0	Standard
⌊	**Ba**	**137**	**100.778**	ug/L	1.546	1	52	735522	1	Standard
⌈>	**Tb**	**159**		ug/L			1692164	1614832	3	Standard
|	**Tl**	**205**	**101.471**	ug/L	4.794	4	150	3749219	1	Standard
⌊	**Pb**	**208**	**100.682**	ug/L	4.369	4	149	4827828	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 15:32:55
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1266893	1190797	1	Standard
⌊	**Be**	**9**	**0.008**	ug/L	0.006	75	13	66	58	Standard
	C	**13**		ug/L			23384	22506	0	Standard
	Cl	**37**		ug/L			5284714	5105124	1	Standard
⌈>	**Sc**	**45**		ug/L			1301616	1247367	1	Standard
|	**V**	**51**	**0.020**	ug/L	0.004	19	6934	7111	1	Standard
|	**V-1**	**51**	**0.010**	ug/L	0.007	76	79	307	58	Standard
|	**Cr**	**52**	**0.041**	ug/L	0.007	17	20424	20415	0	Standard
⌊	**Cr**	**53**	**0.008**	ug/L	0.007	80	115	131	12	Standard
⌈>	**Ge**	**72**		ug/L			39963	39199	1	KED
|	**Ni**	**60**	**0.003**	ug/L	0.007	226	8	10	56	KED
|	**Ni**	**62**	**-0.009**	ug/L	0.021	241	4	3	91	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	188	45	46	10	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.002	23	19	10	20	KED
|	**Zn**	**66**	**-0.007**	ug/L	0.033	459	22	20	44	KED
|	**Zn**	**67**	**-0.078**	ug/L	0.023	29	4	0	173	KED
|	**As**	**75**	**0.001**	ug/L	0.012	1374	6	6	25	KED
⌊	**Se**	**78**	**-0.034**	ug/L	0.108	317	8	8	19	KED
	Y	**89**		ug/L			719839	693659	1	Standard
	Kr	**83**		ug/L			40	43	14	Standard
⌈>	**In-1**	**115**		ug/L			11208	11135	1	KED
|	**Cd**	**111**	**0.004**	ug/L	0.014	362	3	4	58	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.003	58	2	4	26	KED
⌈>	**In**	**115**		ug/L			1119178	1085247	0	Standard
|	**Ag**	**107**	**0.010**	ug/L	0.007	71	91	255	46	Standard
|	**Sb**	**121**	**0.036**	ug/L	0.009	25	576	1050	11	Standard
|	**Sb**	**123**	**0.041**	ug/L	0.011	27	418	835	13	Standard
|	**Ba**	**135**	**0.004**	ug/L	0.005	111	28	45	43	Standard
⌊	**Ba**	**137**	**0.005**	ug/L	0.006	118	52	90	51	Standard
⌈>	**Tb**	**159**		ug/L			1692164	1623779	2	Standard
|	**Tl**	**205**	**0.008**	ug/L	0.007	87	150	455	57	Standard
⌊	**Pb**	**208**	**0.010**	ug/L	0.009	92	149	623	69	Standard

Sample Information

Sample Date/Time: Thursday, June 02, 2022 15:25:17
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED
Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	**1.0000**	0.006	0.20	10	20	50	100
C	13							
Cl	37							
Sc	45							
V	51	**1.0000**	0.019	0.20	10	20	50	100
V-1	51	**1.0000**	0.019	0.20	10	20	50	100
Cr	52	**1.0000**	0.016	0.50	10	20	50	100
Cr	53	**1.0000**	0.002	0.50	10	20	50	100
Ge	72							
Ni	60	**0.9999**	0.021	0.50	10	20	50	100
Ni	62	**0.9999**	0.004	0.50	10	20	50	100
Cu	63	**1.0000**	0.065	0.50	10	20	50	100
Cu	65	**1.0000**	0.032	0.50	10	20	50	100
Zn	66	**1.0000**	0.007	6.00	10	20	50	100
Zn	67	**1.0000**	0.001	6.00	10	20	50	100
As	75	**0.9999**	0.004	0.20	10	20	50	100
Se	78	**0.9998**	0.000	0.50	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.016	0.10	10	20	50	100
Cd	114	**0.9999**	0.039	0.10	10	20	50	100
In	115							
Ag	107	**1.0000**	0.016	0.20	10	20	50	100
Sb	121	**1.0000**	0.013	0.20	10	20	50	100
Sb	123	**0.9999**	0.010	0.20	10	20	50	100
Ba	135	**0.9998**	0.004	0.50	10	20	50	100
Ba	137	**0.9999**	0.007	0.50	10	20	50	100
Tb	159							
Tl	205	**0.9996**	0.023	0.20	10	20	50	100
Pb	208	**0.9999**	0.030	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 15:46:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1266893	1161162	2	Standard
	Be	**9**	**48.931**	ug/L	1.206	2	13	319271	0	Standard
	C	**13**		ug/L			23384	28445	2	Standard
	Cl	**37**		ug/L			5284714	5130914	1	Standard
>	**Sc**	**45**		ug/L			1301616	1250281	1	Standard
	V	**51**	**51.135**	ug/L	0.834	1	6934	1224132	2	Standard
	V-1	**51**	**50.715**	ug/L	0.575	1	79	1230402	2	Standard
	Cr	**52**	**50.391**	ug/L	0.514	1	20424	1051579	2	Standard
	Cr	**53**	**49.107**	ug/L	0.315	0	115	120833	0	Standard
>	**Ge**	**72**		ug/L			39963	37817	2	KED
	Ni	**60**	**49.922**	ug/L	0.429	0	8	40228	2	KED
	Ni	**62**	**49.466**	ug/L	1.257	2	4	6706	2	KED
	Cu	**63**	**49.029**	ug/L	0.929	1	45	120447	1	KED
	Cu	**65**	**50.537**	ug/L	0.431	0	19	60453	3	KED
	Zn	**66**	**49.528**	ug/L	0.530	1	22	13441	2	KED
	Zn	**67**	**48.284**	ug/L	1.508	3	4	2219	6	KED
	As	**75**	**48.931**	ug/L	1.074	2	6	6641	0	KED
	Se	**78**	**76.992**	ug/L	2.514	3	8	1024	1	KED
	Y	**89**		ug/L			719839	696368	0	Standard
	Kr	**83**		ug/L			40	60	7	Standard
>	**In-1**	**115**		ug/L			11208	10890	1	KED
	Cd	**111**	**48.980**	ug/L	1.608	3	3	8413	2	KED
	Cd	**114**	**49.474**	ug/L	0.529	1	2	21138	0	KED
>	**In**	**115**		ug/L			1119178	1065413	0	Standard
	Ag	**107**	**49.751**	ug/L	0.930	1	91	844045	1	Standard
	Sb	**121**	**50.055**	ug/L	0.381	0	576	674435	1	Standard
	Sb	**123**	**49.922**	ug/L	0.347	0	418	514668	1	Standard
	Ba	**135**	**49.317**	ug/L	0.419	0	28	212477	1	Standard
	Ba	**137**	**49.312**	ug/L	0.315	0	52	369527	1	Standard
>	**Tb**	**159**		ug/L			1692164	1632474	0	Standard
	Tl	**205**	**48.421**	ug/L	0.842	1	150	1810470	1	Standard
	Pb	**208**	**49.893**	ug/L	0.539	1	149	2420865	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 15:53:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1266893	1150124	7	Standard
	Be	**9**	**0.000**	ug/L	0.001	177	13	15	38	Standard
	C	**13**		ug/L			23384	23005	1	Standard
	Cl	**37**		ug/L			5284714	4960117	2	Standard
>	**Sc**	**45**		ug/L			1301616	1194581	5	Standard
	V	**51**	**0.014**	ug/L	0.014	95	6934	6679	2	Standard
	V-1	**51**	**0.001**	ug/L	0.001	91	79	88	10	Standard
	Cr	**52**	**0.042**	ug/L	0.037	88	20424	19539	3	Standard
	Cr	**53**	**-0.003**	ug/L	0.006	197	115	100	18	Standard
>	**Ge**	**72**		ug/L			39963	37986	1	KED
	Ni	**60**	**-0.003**	ug/L	0.002	88	8	5	33	KED
	Ni	**62**	**-0.003**	ug/L	0.028	922	4	3	100	KED
	Cu	**63**	**-0.001**	ug/L	0.002	160	45	40	12	KED
	Cu	**65**	**-0.000**	ug/L	0.007	3852	19	18	46	KED
	Zn	**66**	**-0.010**	ug/L	0.019	190	22	19	26	KED
	Zn	**67**	**-0.037**	ug/L	0.063	168	4	2	114	KED
	As	**75**	**0.001**	ug/L	0.002	195	6	6	4	KED
	Se	**78**	**-0.049**	ug/L	0.058	118	8	7	8	KED
	Y	**89**		ug/L			719839	668377	6	Standard
	Kr	**83**		ug/L			40	47	14	Standard
>	**In-1**	**115**		ug/L			11208	10902	1	KED
	Cd	**111**	**-0.009**	ug/L	0.000	1	3	1		KED
	Cd	**114**	**0.002**	ug/L	0.005	326	2	3	72	KED
>	**In**	**115**		ug/L			1119178	1050237	4	Standard
	Ag	**107**	**0.000**	ug/L	0.001	304	91	89	11	Standard
	Sb	**121**	**-0.025**	ug/L	0.001	3	576	208	6	Standard
	Sb	**123**	**-0.024**	ug/L	0.003	10	418	148	13	Standard
	Ba	**135**	**-0.002**	ug/L	0.001	60	28	19	26	Standard
	Ba	**137**	**-0.002**	ug/L	0.000	15	52	32	10	Standard
>	**Tb**	**159**		ug/L			1692164	1569837	5	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	7	150	91	2	Standard
	Pb	**208**	**0.000**	ug/L	0.000	90	149	154	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 15:59:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1266893	1117027	0	Standard
	Be	**9**	**49.339**	ug/L	1.062	2	13	309792	1	Standard
	C	**13**		ug/L			23384	22943	2	Standard
	Cl	**37**		ug/L			5284714	5075708	0	Standard
>	**Sc**	**45**		ug/L			1301616	1193443	2	Standard
	V	**51**	**50.010**	ug/L	1.474	2	6934	1142261	0	Standard
	V-1	**51**	**49.870**	ug/L	1.413	2	79	1154331	0	Standard
	Cr	**52**	**50.009**	ug/L	1.047	2	20424	995928	0	Standard
	Cr	**53**	**49.568**	ug/L	0.970	1	115	116399	1	Standard
>	**Ge**	**72**		ug/L			39963	36949	3	KED
	Ni	**60**	**48.580**	ug/L	0.902	1	8	38240	2	KED
	Ni	**62**	**49.161**	ug/L	2.439	4	4	6506	1	KED
	Cu	**63**	**48.553**	ug/L	1.218	2	45	116515	1	KED
	Cu	**65**	**50.523**	ug/L	1.554	3	19	59002	0	KED
	Zn	**66**	**49.110**	ug/L	0.919	1	22	13019	1	KED
	Zn	**67**	**48.939**	ug/L	2.985	6	4	2193	2	KED
	As	**75**	**48.984**	ug/L	2.139	4	6	6492	1	KED
	Se	**78**	**51.979**	ug/L	0.820	1	8	678	2	KED
	Y	**89**		ug/L			719839	675494	0	Standard
	Kr	**83**		ug/L			40	59	4	Standard
>	**In-1**	**115**		ug/L			11208	10594	2	KED
	Cd	**111**	**48.913**	ug/L	1.426	2	3	8172	0	KED
	Cd	**114**	**49.714**	ug/L	1.083	2	2	20661	1	KED
>	**In**	**115**		ug/L			1119178	1038812	1	Standard
	Ag	**107**	**49.595**	ug/L	0.598	1	91	820548	2	Standard
	Sb	**121**	**49.680**	ug/L	0.593	1	576	652580	0	Standard
	Sb	**123**	**49.032**	ug/L	1.030	2	418	492780	0	Standard
	Ba	**135**	**49.147**	ug/L	0.881	1	28	206417	0	Standard
	Ba	**137**	**49.357**	ug/L	1.089	2	52	360556	1	Standard
>	**Tb**	**159**		ug/L			1692164	1619771	2	Standard
	Tl	**205**	**47.002**	ug/L	1.069	2	150	1743386	1	Standard
	Pb	**208**	**48.263**	ug/L	1.103	2	149	2322873	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 16:06:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1266893	1152928	1	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	201	13	15	33	Standard
	C	**13**		ug/L			23384	22055	1	Standard
	Cl	**37**		ug/L			5284714	4990471	1	Standard
⌈>	**Sc**	**45**		ug/L			1301616	1214912	0	Standard
⌈	**V**	**51**	**0.012**	ug/L	0.004	28	6934	6756	0	Standard
⌈	**V-1**	**51**	**0.000**	ug/L	0.001	159	79	83	18	Standard
⌈	**Cr**	**52**	**0.037**	ug/L	0.011	30	20424	19802	0	Standard
⌊	**Cr**	**53**	**-0.002**	ug/L	0.005	247	115	103	10	Standard
⌈>	**Ge**	**72**		ug/L			39963	37795	2	KED
⌈	**Ni**	**60**	**0.001**	ug/L	0.003	209	8	8	24	KED
⌈	**Ni**	**62**	**-0.008**	ug/L	0.016	198	4	3	69	KED
⌈	**Cu**	**63**	**-0.001**	ug/L	0.002	123	45	39	11	KED
⌈	**Cu**	**65**	**0.002**	ug/L	0.004	233	19	20	27	KED
⌈	**Zn**	**66**	**-0.007**	ug/L	0.021	279	22	19	31	KED
⌈	**Zn**	**67**	**-0.036**	ug/L	0.064	178	4	2	114	KED
⌈	**As**	**75**	**0.002**	ug/L	0.013	788	6	6	25	KED
⌊	**Se**	**78**	**-0.189**	ug/L	0.154	81	8	5	32	KED
	Y	**89**		ug/L			719839	687798	1	Standard
	Kr	**83**		ug/L			40	45	11	Standard
⌈>	**In-1**	**115**		ug/L			11208	10891	3	KED
⌈	**Cd**	**111**	**-0.011**	ug/L	0.006	58	3	1	69	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	289	2	1	104	KED
⌈>	**In**	**115**		ug/L			1119178	1073666	1	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.000	51	91	103	6	Standard
⌈	**Sb**	**121**	**0.005**	ug/L	0.002	38	576	617	2	Standard
⌈	**Sb**	**123**	**0.008**	ug/L	0.002	27	418	480	5	Standard
⌈	**Ba**	**135**	**-0.002**	ug/L	0.001	60	28	17	32	Standard
⌊	**Ba**	**137**	**-0.003**	ug/L	0.001	21	52	27	17	Standard
⌈>	**Tb**	**159**		ug/L			1692164	1624774	2	Standard
⌈	**Tl**	**205**	**0.001**	ug/L	0.001	107	150	166	12	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	30	149	200	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 16:16:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1266893	1137072	3	Standard
⌊	**Be**	**9**	**0.186**	ug/L	0.015	7	13	1197	7	Standard
	C	**13**		ug/L			23384	25966	3	Standard
	Cl	**37**		ug/L			5284714	5012481	1	Standard
⌈>	**Sc**	**45**		ug/L			1301616	1218572	0	Standard
|	**V**	**51**	**0.216**	ug/L	0.009	4	6934	11493	2	Standard
|	**V-1**	**51**	**0.196**	ug/L	0.003	1	79	4716	0	Standard
|	**Cr**	**52**	**0.532**	ug/L	0.012	2	20424	29729	1	Standard
⌊	**Cr**	**53**	**0.452**	ug/L	0.032	7	115	1192	5	Standard
⌈>	**Ge**	**72**		ug/L			39963	38390	1	KED
|	**Ni**	**60**	**0.486**	ug/L	0.049	10	8	405	9	KED
|	**Ni**	**62**	**0.440**	ug/L	0.066	15	4	64	12	KED
|	**Cu**	**63**	**0.472**	ug/L	0.013	2	45	1221	3	KED
|	**Cu**	**65**	**0.473**	ug/L	0.004	0	19	593	2	KED
|	**Zn**	**66**	**5.631**	ug/L	0.110	1	22	1570	0	KED
|	**Zn**	**67**	**5.030**	ug/L	0.714	14	4	238	12	KED
|	**As**	**75**	**0.209**	ug/L	0.013	6	6	35	6	KED
⌊	**Se**	**78**	**0.490**	ug/L	0.216	43	8	15	19	KED
	Y	**89**		ug/L			719839	686620	0	Standard
	Kr	**83**		ug/L			40	46	16	Standard
⌈>	**In-1**	**115**		ug/L			11208	10821	3	KED
|	**Cd**	**111**	**0.116**	ug/L	0.014	11	3	23	10	KED
⌊	**Cd**	**114**	**0.081**	ug/L	0.013	15	2	36	15	KED
⌈>	**In**	**115**		ug/L			1119178	1066128	0	Standard
|	**Ag**	**107**	**0.198**	ug/L	0.001	0	91	3442	0	Standard
|	**Sb**	**121**	**0.169**	ug/L	0.002	0	576	2825	0	Standard
|	**Sb**	**123**	**0.167**	ug/L	0.006	3	418	2117	2	Standard
|	**Ba**	**135**	**0.450**	ug/L	0.016	3	28	1965	3	Standard
⌊	**Ba**	**137**	**0.468**	ug/L	0.011	2	52	3561	2	Standard
⌈>	**Tb**	**159**		ug/L			1692164	1609509	1	Standard
|	**Tl**	**205**	**0.194**	ug/L	0.005	2	150	7308	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.004	3	149	4907	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 16:22:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			1266893	1138257	2	Standard
	Be	9	0.000	ug/L	0.000	132	13	14	19	Standard
	C	13		ug/L			23384	129449	2	Standard
	Cl	37		ug/L			5284714	11625696	2	Standard
>	Sc	45		ug/L			1301616	1258274	1	Standard
	V	51	0.035	ug/L	0.055	159	6934	7552	19	Standard
	V-1	51	2.086	ug/L	0.027	1	79	50989	1	Standard
	Cr	52	0.870	ug/L	0.055	6	20424	37667	1	Standard
	Cr	53	7.292	ug/L	0.273	3	115	18147	2	Standard
>	Ge	72		ug/L			39963	35499	2	KED
	Ni	60	0.033	ug/L	0.007	19	8	32	17	KED
	Ni	62	0.109	ug/L	0.033	30	4	17	22	KED
	Cu	63	0.050	ug/L	0.004	7	45	156	6	KED
	Cu	65	0.044	ug/L	0.010	22	19	66	14	KED
	Zn	66	0.567	ug/L	0.023	4	22	164	1	KED
	Zn	67	0.526	ug/L	0.146	27	4	26	25	KED
	As	75	0.027	ug/L	0.023	84	6	9	33	KED
	Se	78	0.157	ug/L	0.106	67	8	9	14	KED
	Y	89		ug/L			719839	712187	1	Standard
	Kr	83		ug/L			40	104	19	Standard
>	In-1	115		ug/L			11208	10366	1	KED
	Cd	111	0.042	ug/L	0.009	20	3	10	14	KED
	Cd	114	0.028	ug/L	0.017	58	2	13	48	KED
>	In	115		ug/L			1119178	1040336	1	Standard
	Ag	107	0.063	ug/L	0.003	4	91	1125	4	Standard
	Sb	121	-0.013	ug/L	0.001	10	576	360	4	Standard
	Sb	123	-0.006	ug/L	0.003	52	418	324	11	Standard
	Ba	135	0.083	ug/L	0.015	17	28	377	17	Standard
	Ba	137	0.079	ug/L	0.006	7	52	626	7	Standard
>	Tb	159		ug/L			1692164	1626198	1	Standard
	Tl	205	0.005	ug/L	0.001	10	150	332	5	Standard
	Pb	208	0.070	ug/L	0.002	2	149	3542	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 16:26:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1266893	1144659	4	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	167	13	15	36	Standard
	C	**13**		ug/L			23384	131102	2	Standard
	Cl	**37**		ug/L			5284714	11953945	0	Standard
⌈>	**Sc**	**45**		ug/L			1301616	1285442	0	Standard
|	**V**	**51**	**-0.037**	ug/L	0.013	35	6934	5928	4	Standard
|	**V-1**	**51**	**1.956**	ug/L	0.031	1	79	48852	1	Standard
|	**Cr**	**52**	**20.659**	ug/L	0.243	1	20424	455083	0	Standard
⌊	**Cr**	**53**	**25.732**	ug/L	0.252	0	115	65151	0	Standard
⌈>	**Ge**	**72**		ug/L			39963	35942	1	KED
|	**Ni**	**60**	**19.948**	ug/L	0.294	1	8	15283	1	KED
|	**Ni**	**62**	**19.806**	ug/L	0.949	4	4	2555	4	KED
|	**Cu**	**63**	**19.866**	ug/L	0.733	3	45	46412	2	KED
|	**Cu**	**65**	**19.813**	ug/L	0.396	1	19	22532	0	KED
|	**Zn**	**66**	**19.274**	ug/L	0.705	3	22	4986	4	KED
|	**Zn**	**67**	**17.283**	ug/L	0.603	3	4	756	2	KED
|	**As**	**75**	**18.803**	ug/L	0.401	2	6	2430	1	KED
⌊	**Se**	**78**	**0.048**	ug/L	0.153	317	8	8	22	KED
	Y	**89**		ug/L			719839	722276	0	Standard
	Kr	**83**		ug/L			40	112	6	Standard
⌈>	**In-1**	**115**		ug/L			11208	10193	3	KED
|	**Cd**	**111**	**18.925**	ug/L	0.772	4	3	3042	1	KED
⌊	**Cd**	**114**	**19.351**	ug/L	0.743	3	2	7734	0	KED
⌈>	**In**	**115**		ug/L			1119178	1051006	0	Standard
|	**Ag**	**107**	**19.172**	ug/L	0.389	2	91	320935	1	Standard
|	**Sb**	**121**	**-0.017**	ug/L	0.001	8	576	311	6	Standard
|	**Sb**	**123**	**-0.014**	ug/L	0.001	5	418	252	3	Standard
|	**Ba**	**135**	**0.079**	ug/L	0.005	6	28	361	6	Standard
⌊	**Ba**	**137**	**0.068**	ug/L	0.004	5	52	555	5	Standard
⌈>	**Tb**	**159**		ug/L			1692164	1643563	1	Standard
|	**Tl**	**205**	**0.011**	ug/L	0.000	2	150	543	2	Standard
⌊	**Pb**	**208**	**0.080**	ug/L	0.002	2	149	4042	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 16:31:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			1266893	1065983	0	Standard
	Be	9	181.730	ug/L	2.734	1	13	1088948	1	Standard
	C	13		ug/L			23384	29058	3	Standard
	Cl	37		ug/L			5284714	5130464	2	Standard
>	Sc	45		ug/L			1301616	1176305	1	Standard
	V	51	202.561	ug/L	1.619	0	6934	4542662	0	Standard
	V-1	51	201.725	ug/L	1.484	0	79	4603538	0	Standard
	Cr	52	198.743	ug/L	1.111	0	20424	3847185	0	Standard
	Cr	53	196.330	ug/L	0.927	0	115	454199	1	Standard
>	Ge	72		ug/L			39963	34292	7	KED
	Ni	60	202.161	ug/L	15.502	7	8	147171	1	KED
	Ni	62	199.578	ug/L	15.692	7	4	24439	0	KED
	Cu	63	196.614	ug/L	15.485	7	45	436347	0	KED
	Cu	65	199.315	ug/L	16.305	8	19	215300	1	KED
	Zn	66	197.494	ug/L	15.757	7	22	48370	1	KED
	Zn	67	192.157	ug/L	14.870	7	4	7962	0	KED
	As	75	200.980	ug/L	13.332	6	6	24651	1	KED
	Se	78	195.661	ug/L	14.412	7	8	2341	2	KED
	Y	89		ug/L			719839	677762	1	Standard
	Kr	83		ug/L			40	106	17	Standard
>	In-1	115		ug/L			11208	9875	0	KED
	Cd	111	198.205	ug/L	3.264	1	3	30868	1	KED
	Cd	114	195.659	ug/L	2.755	1	2	75805	1	KED
>	In	115		ug/L			1119178	1017641	2	Standard
	Ag	107	200.732	ug/L	2.627	1	91	3252127	1	Standard
	Sb	121	203.630	ug/L	5.159	2	576	2617783	0	Standard
	Sb	123	192.370	ug/L	3.409	1	418	1892619	0	Standard
	Ba	135	194.492	ug/L	4.671	2	28	799997	1	Standard
	Ba	137	194.231	ug/L	4.879	2	52	1389489	0	Standard
>	Tb	159		ug/L			1692164	1614940	0	Standard
	Tl	205	195.164	ug/L	1.336	0	150	7219072	0	Standard
	Pb	208	194.681	ug/L	0.677	0	149	9344780	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 16:36:46

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			1266893	965190	2	Standard
⌊	Be	9	271.986	ug/L	10.513	3	13	1474826	1	Standard
	C	13		ug/L			23384	31022	2	Standard
	Cl	37		ug/L			5284714	4866330	1	Standard
⌈>	Sc	45		ug/L			1301616	1117712	1	Standard
|	V	51	299.756	ug/L	5.314	1	6934	6384344	1	Standard
|	V-1	51	296.784	ug/L	2.099	0	79	6435552	0	Standard
|	Cr	52	291.102	ug/L	11.508	3	20424	5344885	2	Standard
⌊	Cr	53	282.233	ug/L	3.046	1	115	620348	0	Standard
⌈>	Ge	72		ug/L			39963	33231	2	KED
|	Ni	60	283.751	ug/L	6.291	2	8	200872	2	KED
|	Ni	62	278.045	ug/L	10.409	3	4	33096	1	KED
|	Cu	63	269.361	ug/L	3.682	1	45	581351	1	KED
|	Cu	65	279.652	ug/L	5.934	2	19	293751	1	KED
|	Zn	66	271.861	ug/L	7.518	2	22	64727	0	KED
|	Zn	67	266.722	ug/L	2.780	1	4	10746	1	KED
|	As	75	288.133	ug/L	5.286	1	6	34344	1	KED
⌊	Se	78	279.698	ug/L	4.571	1	8	3250	1	KED
	Y	89		ug/L			719839	626857	3	Standard
	Kr	83		ug/L			40	157	6	Standard
⌈>	In-1	115		ug/L			11208	9513	2	KED
|	Cd	111	280.960	ug/L	6.046	2	3	42147	1	KED
⌊	Cd	114	284.093	ug/L	4.070	1	2	106018	0	KED
⌈>	In	115		ug/L			1119178	946815	1	Standard
|	Ag	107	293.344	ug/L	10.181	3	91	4420901	1	Standard
|	Sb	121	303.222	ug/L	8.098	2	576	3627087	1	Standard
|	Sb	123	298.769	ug/L	5.501	1	418	2734876	0	Standard
|	Ba	135	295.083	ug/L	7.238	2	28	1129324	0	Standard
⌊	Ba	137	291.482	ug/L	7.275	2	52	1940270	0	Standard
⌈>	Tb	159		ug/L			1692164	1535637	0	Standard
|	Tl	205	281.350	ug/L	5.753	2	150	9894942	1	Standard
⌊	Pb	208	282.668	ug/L	5.026	1	149	12900920	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 16:44:23
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1266893	949281	3	Standard
	Be	**9**	**273.125**	ug/L	13.466	4	13	1455671	1	Standard
	C	**13**		ug/L			23384	31137	2	Standard
	Cl	**37**		ug/L			5284714	4724935	0	Standard
>	**Sc**	**45**		ug/L			1301616	1109296	0	Standard
	V	**51**	**295.630**	ug/L	0.935	0	6934	6250047	1	Standard
	V-1	**51**	**294.068**	ug/L	0.241	0	79	6329059	1	Standard
	Cr	**52**	**287.107**	ug/L	3.467	1	20424	5233923	2	Standard
	Cr	**53**	**282.681**	ug/L	1.075	0	115	616700	1	Standard
>	**Ge**	**72**		ug/L			39963	32824	0	KED
	Ni	**60**	**283.450**	ug/L	5.053	1	8	198236	1	KED
	Ni	**62**	**278.358**	ug/L	3.322	1	4	32751	1	KED
	Cu	**63**	**272.748**	ug/L	1.377	0	45	581606	0	KED
	Cu	**65**	**280.178**	ug/L	6.532	2	19	290829	2	KED
	Zn	**66**	**270.086**	ug/L	4.288	1	22	63551	1	KED
	Zn	**67**	**271.506**	ug/L	4.786	1	4	10807	1	KED
	As	**75**	**290.677**	ug/L	4.097	1	6	34233	1	KED
	Se	**78**	**285.939**	ug/L	0.931	0	8	3283	0	KED
	Y	**89**		ug/L			719839	618889	1	Standard
	Kr	**83**		ug/L			40	140	4	Standard
>	**In-1**	**115**		ug/L			11208	9541	2	KED
	Cd	**111**	**276.513**	ug/L	6.145	2	3	41594	0	KED
	Cd	**114**	**276.621**	ug/L	5.165	1	2	103517	0	KED
>	**In**	**115**		ug/L			1119178	946526	1	Standard
	Ag	**107**	**285.391**	ug/L	4.358	1	91	4301447	2	Standard
	Sb	**121**	**302.062**	ug/L	4.785	1	576	3612557	0	Standard
	Sb	**123**	**298.460**	ug/L	3.810	1	418	2731412	0	Standard
	Ba	**135**	**292.989**	ug/L	6.114	2	28	1121038	0	Standard
	Ba	**137**	**290.901**	ug/L	7.906	2	52	1935781	0	Standard
>	**Tb**	**159**		ug/L			1692164	1511322	1	Standard
	Tl	**205**	**280.824**	ug/L	5.031	1	150	9718914	0	Standard
	Pb	**208**	**282.913**	ug/L	11.055	3	149	12702767	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 16:52:01
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			1266893	1040848	2	Standard
	Be	9	0.009	ug/L	0.003	35	13	63	30	Standard
	C	13		ug/L			23384	23966	3	Standard
	Cl	37		ug/L			5284714	4999033	1	Standard
>	Sc	45		ug/L			1301616	1186545	1	Standard
	V	51	0.018	ug/L	0.006	34	6934	6732	2	Standard
	V-1	51	0.013	ug/L	0.003	22	79	378	19	Standard
	Cr	52	0.050	ug/L	0.013	25	20424	19581	2	Standard
	Cr	53	0.032	ug/L	0.012	35	115	180	16	Standard
>	Ge	72		ug/L			39963	36743	0	KED
	Ni	60	0.001	ug/L	0.006	667	8	8	53	KED
	Ni	62	-0.017	ug/L	0.025	149	4	1	173	KED
	Cu	63	0.000	ug/L	0.005	944	45	42	24	KED
	Cu	65	0.008	ug/L	0.006	72	19	27	25	KED
	Zn	66	0.007	ug/L	0.013	183	22	22	14	KED
	Zn	67	-0.049	ug/L	0.074	150	4	1	173	KED
	As	75	0.002	ug/L	0.008	496	6	6	17	KED
	Se	78	0.146	ug/L	0.260	178	8	10	33	KED
	Y	89		ug/L			719839	667895	1	Standard
	Kr	83		ug/L			40	45	11	Standard
>	In-1	115		ug/L			11208	10714	1	KED
	Cd	111	-0.010	ug/L	0.009	84	3	1	91	KED
	Cd	114	0.008	ug/L	0.016	209	2	5	120	KED
>	In	115		ug/L			1119178	1064553	1	Standard
	Ag	107	0.013	ug/L	0.003	22	91	311	14	Standard
	Sb	121	0.132	ug/L	0.008	5	576	2318	4	Standard
	Sb	123	0.131	ug/L	0.002	1	418	1745	2	Standard
	Ba	135	0.004	ug/L	0.004	119	28	42	41	Standard
	Ba	137	0.003	ug/L	0.001	56	52	69	14	Standard
>	Tb	159		ug/L			1692164	1600610	2	Standard
	Tl	205	0.027	ug/L	0.002	5	150	1125	7	Standard
	Pb	208	0.008	ug/L	0.002	28	149	502	23	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 16:58:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1266893	1050454	2	Standard
⌊	**Be**	**9**	**0.004**	ug/L	0.001	29	13	35	21	Standard
	C	**13**		ug/L			23384	24549	1	Standard
	Cl	**37**		ug/L			5284714	4916354	1	Standard
⌈>	**Sc**	**45**		ug/L			1301616	1170479	0	Standard
|	**V**	**51**	**0.020**	ug/L	0.013	63	6934	6681	4	Standard
|	**V-1**	**51**	**0.008**	ug/L	0.001	14	79	255	10	Standard
|	**Cr**	**52**	**0.057**	ug/L	0.034	59	20424	19468	3	Standard
⌊	**Cr**	**53**	**0.018**	ug/L	0.005	27	115	145	8	Standard
⌈>	**Ge**	**72**		ug/L			39963	36525	2	KED
|	**Ni**	**60**	**0.010**	ug/L	0.009	93	8	15	45	KED
|	**Ni**	**62**	**0.027**	ug/L	0.030	109	4	7	50	KED
|	**Cu**	**63**	**0.012**	ug/L	0.010	83	45	69	31	KED
|	**Cu**	**65**	**0.008**	ug/L	0.010	123	19	27	40	KED
|	**Zn**	**66**	**0.051**	ug/L	0.020	38	22	34	16	KED
|	**Zn**	**67**	**0.036**	ug/L	0.073	200	4	5	57	KED
|	**As**	**75**	**0.016**	ug/L	0.018	116	6	8	26	KED
⌊	**Se**	**78**	**-0.102**	ug/L	0.081	79	8	6	16	KED
	Y	**89**		ug/L			719839	664787	2	Standard
	Kr	**83**		ug/L			40	40	27	Standard
⌈>	**In-1**	**115**		ug/L			11208	10645	0	KED
|	**Cd**	**111**	**0.007**	ug/L	0.007	99	3	4	24	KED
⌊	**Cd**	**114**	**0.012**	ug/L	0.023	191	2	7	131	KED
⌈>	**In**	**115**		ug/L			1119178	1043793	3	Standard
|	**Ag**	**107**	**0.004**	ug/L	0.001	36	91	144	14	Standard
|	**Sb**	**121**	**0.027**	ug/L	0.007	25	576	894	8	Standard
|	**Sb**	**123**	**0.025**	ug/L	0.000	1	418	643	3	Standard
|	**Ba**	**135**	**-0.000**	ug/L	0.002	799	28	25	31	Standard
⌊	**Ba**	**137**	**-0.000**	ug/L	0.001	391	52	47	8	Standard
⌈>	**Tb**	**159**		ug/L			1692164	1574269	1	Standard
|	**Tl**	**205**	**0.011**	ug/L	0.001	9	150	540	5	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	3	149	274	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 17:05:37
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1266893	1041390	1	Standard
⌊	**Be**	**9**	**49.836**	ug/L	2.444	4	13	291592	3	Standard
	C	**13**		ug/L			23384	22051	1	Standard
	Cl	**37**		ug/L			5284714	5031328	3	Standard
⌈>	**Sc**	**45**		ug/L			1301616	1182089	0	Standard
|	**V**	**51**	**48.712**	ug/L	0.508	1	6934	1102714	1	Standard
|	**V-1**	**51**	**48.529**	ug/L	0.621	1	79	1113133	2	Standard
|	**Cr**	**52**	**48.900**	ug/L	0.350	0	20424	965298	1	Standard
⌊	**Cr**	**53**	**48.311**	ug/L	0.806	1	115	112410	2	Standard
⌈>	**Ge**	**72**		ug/L			39963	34470	5	KED
|	**Ni**	**60**	**49.385**	ug/L	2.201	4	8	36245	4	KED
|	**Ni**	**62**	**50.551**	ug/L	2.412	4	4	6240	2	KED
|	**Cu**	**63**	**50.351**	ug/L	2.212	4	45	112634	2	KED
|	**Cu**	**65**	**51.428**	ug/L	2.568	4	19	55981	1	KED
|	**Zn**	**66**	**49.766**	ug/L	1.762	3	22	12304	3	KED
|	**Zn**	**67**	**50.756**	ug/L	2.271	4	4	2123	5	KED
|	**As**	**75**	**50.558**	ug/L	2.016	3	6	6250	1	KED
⌊	**Se**	**78**	**52.094**	ug/L	2.694	5	8	633	3	KED
	Y	**89**		ug/L			719839	668492	0	Standard
	Kr	**83**		ug/L			40	53	12	Standard
⌈>	**In-1**	**115**		ug/L			11208	10509	0	KED
|	**Cd**	**111**	**49.000**	ug/L	1.281	2	3	8125	2	KED
⌊	**Cd**	**114**	**48.589**	ug/L	0.612	1	2	20038	1	KED
⌈>	**In**	**115**		ug/L			1119178	1024959	0	Standard
|	**Ag**	**107**	**48.903**	ug/L	1.056	2	91	798207	1	Standard
|	**Sb**	**121**	**49.836**	ug/L	0.619	1	576	645957	1	Standard
|	**Sb**	**123**	**49.292**	ug/L	0.675	1	418	488881	1	Standard
|	**Ba**	**135**	**49.015**	ug/L	0.442	0	28	203149	0	Standard
⌊	**Ba**	**137**	**49.290**	ug/L	0.478	0	52	355327	0	Standard
⌈>	**Tb**	**159**		ug/L			1692164	1580192	1	Standard
|	**Tl**	**205**	**47.401**	ug/L	1.037	2	150	1715421	1	Standard
⌊	**Pb**	**208**	**48.090**	ug/L	0.687	1	149	2258547	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 17:13:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1266893	1134327	0	Standard
⌊	**Be**	**9**	**0.004**	ug/L	0.001	35	13	39	24	Standard
	C	**13**		ug/L			23384	21447	2	Standard
	Cl	**37**		ug/L			5284714	4997477	2	Standard
⌈>	**Sc**	**45**		ug/L			1301616	1215877	1	Standard
|	**V**	**51**	**0.011**	ug/L	0.006	51	6934	6733	2	Standard
|	**V-1**	**51**	**0.005**	ug/L	0.001	9	79	198	6	Standard
|	**Cr**	**52**	**0.028**	ug/L	0.022	77	20424	19636	2	Standard
⌊	**Cr**	**53**	**0.009**	ug/L	0.007	76	115	128	11	Standard
⌈>	**Ge**	**72**		ug/L			39963	36377	1	KED
|	**Ni**	**60**	**0.000**	ug/L	0.004	3640	8	7	43	KED
|	**Ni**	**62**	**0.008**	ug/L	0.023	279	4	5	57	KED
|	**Cu**	**63**	**0.004**	ug/L	0.005	110	45	50	21	KED
|	**Cu**	**65**	**0.010**	ug/L	0.005	48	19	29	19	KED
|	**Zn**	**66**	**-0.031**	ug/L	0.023	72	22	12	45	KED
|	**Zn**	**67**	**0.008**	ug/L	0.107	1305	4	4	107	KED
|	**As**	**75**	**0.012**	ug/L	0.007	61	6	7	12	KED
⌊	**Se**	**78**	**0.048**	ug/L	0.212	446	8	8	31	KED
	Y	**89**		ug/L			719839	680362	1	Standard
	Kr	**83**		ug/L			40	55	18	Standard
⌈>	**In-1**	**115**		ug/L			11208	10666	1	KED
|	**Cd**	**111**	**0.012**	ug/L	0.021	171	3	5	66	KED
⌊	**Cd**	**114**	**0.010**	ug/L	0.007	75	2	6	45	KED
⌈>	**In**	**115**		ug/L			1119178	1068139	1	Standard
|	**Ag**	**107**	**0.003**	ug/L	0.000	14	91	137	4	Standard
|	**Sb**	**121**	**0.024**	ug/L	0.005	20	576	874	6	Standard
|	**Sb**	**123**	**0.024**	ug/L	0.003	12	418	650	4	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.002	156	28	21	39	Standard
⌊	**Ba**	**137**	**-0.000**	ug/L	0.001	592	52	48	17	Standard
⌈>	**Tb**	**159**		ug/L			1692164	1615770	1	Standard
|	**Tl**	**205**	**0.007**	ug/L	0.001	8	150	395	4	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	13	149	285	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 17:18:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L				1100182	1	Standard
⌊	**Be**	**9**		ug/L				47	18	Standard
	C	**13**		ug/L				21311	0	Standard
	Cl	**37**		ug/L				4909887	2	Standard
⌈>	**Sc**	**45**		ug/L				1193284	1	Standard
|	**V**	**51**		ug/L				6716	3	Standard
|	**V-1**	**51**		ug/L				170	8	Standard
|	**Cr**	**52**		ug/L				19601	2	Standard
⌊	**Cr**	**53**		ug/L				121	7	Standard
⌈>	**Ge**	**72**		ug/L				36521	2	KED
|	**Ni**	**60**		ug/L				24	15	KED
|	**Ni**	**62**		ug/L				10	26	KED
|	**Cu**	**63**		ug/L				66	18	KED
|	**Cu**	**65**		ug/L				34	19	KED
|	**Zn**	**66**		ug/L				48	24	KED
|	**Zn**	**67**		ug/L				12	43	KED
|	**As**	**75**		ug/L				9	2	KED
⌊	**Se**	**78**		ug/L				8	24	KED
	Y	**89**		ug/L				671656	1	Standard
	Kr	**83**		ug/L				49	10	Standard
⌈>	**In-1**	**115**		ug/L				10819	3	KED
|	**Cd**	**111**		ug/L				3	68	KED
⌊	**Cd**	**114**		ug/L				2	47	KED
⌈>	**In**	**115**		ug/L				1056770	1	Standard
|	**Ag**	**107**		ug/L				93	20	Standard
|	**Sb**	**121**		ug/L				403	6	Standard
|	**Sb**	**123**		ug/L				312	3	Standard
|	**Ba**	**135**		ug/L				41	30	Standard
⌊	**Ba**	**137**		ug/L				86	10	Standard
⌈>	**Tb**	**159**		ug/L				1571468	0	Standard
|	**Tl**	**205**		ug/L				263	2	Standard
⌊	**Pb**	**208**		ug/L				268	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 17:23:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1100182	1088224	3	Standard
	Be	**9**	**48.261**	ug/L	2.011	4	47	294952	0	Standard
	C	**13**		ug/L			21311	22314	1	Standard
	Cl	**37**		ug/L			4909887	5052220	1	Standard
>	**Sc**	**45**		ug/L			1193284	1180360	2	Standard
	V	**51**	**49.228**	ug/L	1.154	2	6716	1112654	0	Standard
	V-1	**51**	**49.019**	ug/L	1.380	2	170	1122346	1	Standard
	Cr	**52**	**48.716**	ug/L	0.949	1	19601	960982	1	Standard
	Cr	**53**	**48.089**	ug/L	1.286	2	121	111690	0	Standard
>	**Ge**	**72**		ug/L			36521	36458	1	KED
	Ni	**60**	**47.892**	ug/L	0.883	1	24	37228	2	KED
	Ni	**62**	**47.446**	ug/L	0.954	2	10	6209	1	KED
	Cu	**63**	**47.165**	ug/L	0.686	1	66	111768	2	KED
	Cu	**65**	**48.624**	ug/L	1.584	3	34	56071	1	KED
	Zn	**66**	**48.042**	ug/L	0.603	1	48	12599	0	KED
	Zn	**67**	**48.882**	ug/L	0.730	1	12	2173	2	KED
	As	**75**	**48.554**	ug/L	0.799	1	9	6359	0	KED
	Se	**78**	**51.182**	ug/L	0.232	0	8	660	1	KED
	Y	**89**		ug/L			671656	662717	2	Standard
	Kr	**83**		ug/L			49	45	25	Standard
>	**In-1**	**115**		ug/L			10819	10458	1	KED
	Cd	**111**	**49.116**	ug/L	1.386	2	3	8101	1	KED
	Cd	**114**	**49.828**	ug/L	0.879	1	2	20443	0	KED
>	**In**	**115**		ug/L			1056770	1040558	0	Standard
	Ag	**107**	**48.244**	ug/L	0.618	1	93	799415	0	Standard
	Sb	**121**	**48.333**	ug/L	0.941	1	403	635829	1	Standard
	Sb	**123**	**47.929**	ug/L	0.236	0	312	482506	0	Standard
	Ba	**135**	**48.161**	ug/L	0.509	1	41	202655	0	Standard
	Ba	**137**	**48.566**	ug/L	0.189	0	86	355471	0	Standard
>	**Tb**	**159**		ug/L			1571468	1595924	2	Standard
	Tl	**205**	**46.096**	ug/L	2.697	5	263	1683319	3	Standard
	Pb	**208**	**47.379**	ug/L	1.899	4	268	2245941	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 17:31:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			1100182	1107710	2	Standard
⌊	**Be**	**9**	**-0.002**	ug/L	0.001	67	47	36	24	Standard
	C	**13**		ug/L			21311	21311	2	Standard
	Cl	**37**		ug/L			4909887	4897198	0	Standard
⌈>	**Sc**	**45**		ug/L			1193284	1189433	1	Standard
|	**V**	**51**	**0.003**	ug/L	0.006	175	6716	6768	0	Standard
|	**V-1**	**51**	**-0.001**	ug/L	0.001	77	170	152	7	Standard
|	**Cr**	**52**	**0.015**	ug/L	0.020	134	19601	19818	1	Standard
⌊	**Cr**	**53**	**0.001**	ug/L	0.003	261	121	123	5	Standard
⌈>	**Ge**	**72**		ug/L			36521	36371	1	KED
|	**Ni**	**60**	**-0.010**	ug/L	0.005	54	24	17	22	KED
|	**Ni**	**62**	**-0.058**	ug/L	0.017	28	10	3	69	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.004	99	66	55	19	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.005	76	34	26	21	KED
|	**Zn**	**66**	**-0.048**	ug/L	0.012	25	48	35	8	KED
|	**Zn**	**67**	**-0.100**	ug/L	0.047	46	12	8	26	KED
|	**As**	**75**	**-0.019**	ug/L	0.019	100	9	7	37	KED
⌊	**Se**	**78**	**-0.156**	ug/L	0.070	44	8	6	11	KED
	Y	**89**		ug/L			671656	663491	1	Standard
	Kr	**83**		ug/L			49	46	26	Standard
⌈>	**In-1**	**115**		ug/L			10819	10596	1	KED
|	**Cd**	**111**	**0.010**	ug/L	0.008	83	3	5	28	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.010	531	2	3	128	KED
⌈>	**In**	**115**		ug/L			1056770	1052196	0	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	73	93	118	15	Standard
|	**Sb**	**121**	**0.026**	ug/L	0.002	7	403	745	3	Standard
|	**Sb**	**123**	**0.027**	ug/L	0.004	13	312	586	5	Standard
|	**Ba**	**135**	**-0.000**	ug/L	0.002	620	41	39	26	Standard
⌊	**Ba**	**137**	**-0.003**	ug/L	0.001	18	86	62	7	Standard
⌈>	**Tb**	**159**		ug/L			1571468	1573617	1	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	16	263	250	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	57	268	254	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0050-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 17:36:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			1100182	1027105	2	Standard
⌊	Be	9	-0.004	ug/L	0.002	62	47	22	58	Standard
	C	13		ug/L			21311	29156	1	Standard
	Cl	37		ug/L			4909887	4765201	0	Standard
⌈>	Sc	45		ug/L			1193284	1157029	1	Standard
|	V	51	0.016	ug/L	0.002	15	6716	6863	2	Standard
|	V-1	51	0.003	ug/L	0.001	18	170	240	4	Standard
|	Cr	52	0.062	ug/L	0.004	6	19601	20181	2	Standard
⌊	Cr	53	0.020	ug/L	0.007	38	121	162	9	Standard
⌈>	Ge	72		ug/L			36521	35102	0	KED
|	Ni	60	-0.023	ug/L	0.005	22	24	6	62	KED
|	Ni	62	-0.067	ug/L	0.015	22	10	1	100	KED
|	Cu	63	0.023	ug/L	0.008	34	66	115	14	KED
|	Cu	65	0.008	ug/L	0.010	121	34	42	25	KED
|	Zn	66	-0.023	ug/L	0.019	81	48	40	10	KED
|	Zn	67	-0.093	ug/L	0.052	56	12	8	26	KED
|	As	75	-0.013	ug/L	0.014	101	9	7	21	KED
⌊	Se	78	-0.191	ug/L	0.135	70	8	6	27	KED
	Y	89		ug/L			671656	635837	2	Standard
	Kr	83		ug/L			49	38	21	Standard
⌈>	In-1	115		ug/L			10819	10068	3	KED
|	Cd	111	-0.002	ug/L	0.010	422	3	2	57	KED
⌊	Cd	114	0.008	ug/L	0.009	104	2	5	59	KED
⌈>	In	115		ug/L			1056770	1018057	2	Standard
|	Ag	107	-0.001	ug/L	0.001	72	93	78	12	Standard
|	Sb	121	-0.009	ug/L	0.000	2	403	269	3	Standard
|	Sb	123	-0.008	ug/L	0.003	36	312	227	14	Standard
|	Ba	135	-0.003	ug/L	0.001	34	41	28	11	Standard
⌊	Ba	137	-0.006	ug/L	0.001	16	86	38	17	Standard
⌈>	Tb	159		ug/L			1571468	1522966	2	Standard
|	Tl	205	-0.003	ug/L	0.000	9	263	166	5	Standard
⌊	Pb	208	-0.001	ug/L	0.000	30	268	206	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0050-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 17:41:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			1100182	1036508	1	Standard
	Be	9	25.526	ug/L	1.338	5	47	148712	4	Standard
	C	13		ug/L			21311	31607	3	Standard
	Cl	37		ug/L			4909887	4823904	1	Standard
>	Sc	45		ug/L			1193284	1126315	3	Standard
	V	51	26.075	ug/L	0.935	3	6716	564985	0	Standard
	V-1	51	26.009	ug/L	1.074	4	170	567919	0	Standard
	Cr	52	25.976	ug/L	1.101	4	19601	497144	0	Standard
	Cr	53	25.776	ug/L	1.554	6	121	57115	2	Standard
>	Ge	72		ug/L			36521	35646	1	KED
	Ni	60	24.311	ug/L	0.598	2	24	18486	2	KED
	Ni	62	24.338	ug/L	0.265	1	10	3119	1	KED
	Cu	63	24.732	ug/L	0.362	1	66	57324	0	KED
	Cu	65	25.076	ug/L	0.437	1	34	28292	0	KED
	Zn	66	79.269	ug/L	2.201	2	48	20293	2	KED
	Zn	67	72.138	ug/L	1.699	2	12	3129	1	KED
	As	75	24.315	ug/L	0.159	0	9	3118	1	KED
	Se	78	83.472	ug/L	3.601	4	8	1046	2	KED
	Y	89		ug/L			671656	632674	3	Standard
	Kr	83		ug/L			49	53	3	Standard
>	In-1	115		ug/L			10819	10390	2	KED
	Cd	111	25.501	ug/L	0.651	2	3	4180	0	KED
	Cd	114	25.338	ug/L	0.857	3	2	10326	1	KED
>	In	115		ug/L			1056770	1006040	1	Standard
	Ag	107	26.065	ug/L	0.754	2	93	417508	1	Standard
	Sb	121	-0.014	ug/L	0.000	3	403	212	2	Standard
	Sb	123	-0.012	ug/L	0.002	15	312	179	8	Standard
	Ba	135	25.809	ug/L	0.633	2	41	104997	1	Standard
	Ba	137	26.015	ug/L	0.930	3	86	184064	1	Standard
>	Tb	159		ug/L			1571468	1532052	0	Standard
	Tl	205	25.477	ug/L	0.356	1	263	894223	1	Standard
	Pb	208	25.770	ug/L	0.218	0	268	1173757	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0052-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 17:46:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			1100182	1019032	1	Standard
	Be	9	-0.004	ug/L	0.001	17	47	20	18	Standard
	C	13		ug/L			21311	28957	1	Standard
	Cl	37		ug/L			4909887	4778713	1	Standard
>	Sc	45		ug/L			1193284	1097341	3	Standard
	V	51	0.017	ug/L	0.009	51	6716	6526	3	Standard
	V-1	51	0.003	ug/L	0.000	13	170	219	2	Standard
	Cr	52	0.105	ug/L	0.033	31	19601	19900	3	Standard
	Cr	53	0.056	ug/L	0.003	6	121	231	4	Standard
>	Ge	72		ug/L			36521	35438	0	KED
	Ni	60	-0.018	ug/L	0.008	44	24	10	60	KED
	Ni	62	-0.057	ug/L	0.017	30	10	3	69	KED
	Cu	63	0.002	ug/L	0.003	156	66	68	9	KED
	Cu	65	-0.001	ug/L	0.002	143	34	32	5	KED
	Zn	66	0.063	ug/L	0.075	118	48	62	29	KED
	Zn	67	0.053	ug/L	0.025	46	12	14	7	KED
	As	75	-0.020	ug/L	0.006	30	9	6	10	KED
	Se	78	-0.120	ug/L	0.238	197	8	7	41	KED
	Y	89		ug/L			671656	624522	2	Standard
	Kr	83		ug/L			49	40	31	Standard
>	In-1	115		ug/L			10819	9964	1	KED
	Cd	111	-0.000	ug/L	0.007	2190	3	3	34	KED
	Cd	114	-0.003	ug/L	0.006	210	2	1	188	KED
>	In	115		ug/L			1056770	995447	1	Standard
	Ag	107	0.001	ug/L	0.001	225	93	98	24	Standard
	Sb	121	-0.017	ug/L	0.002	11	403	170	12	Standard
	Sb	123	-0.018	ug/L	0.001	5	312	122	6	Standard
	Ba	135	-0.003	ug/L	0.002	69	41	28	26	Standard
	Ba	137	-0.004	ug/L	0.001	17	86	57	8	Standard
>	Tb	159		ug/L			1571468	1490148	4	Standard
	Tl	205	-0.003	ug/L	0.000	16	263	155	12	Standard
	Pb	208	-0.001	ug/L	0.000	36	268	215	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0052-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 17:50:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			1100182	1046935	1	Standard
	Be	9	25.612	ug/L	1.321	5	47	150732	4	Standard
	C	13		ug/L			21311	32810	3	Standard
	Cl	37		ug/L			4909887	4786684	1	Standard
>	Sc	45		ug/L			1193284	1139251	2	Standard
	V	51	25.710	ug/L	0.345	1	6716	564083	2	Standard
	V-1	51	25.551	ug/L	0.315	1	170	564914	2	Standard
	Cr	52	25.672	ug/L	0.300	1	19601	497695	2	Standard
	Cr	53	25.173	ug/L	0.342	1	121	56505	2	Standard
>	Ge	72		ug/L			36521	33498	6	KED
	Ni	60	26.596	ug/L	1.961	7	24	18946	1	KED
	Ni	62	26.342	ug/L	2.000	7	10	3162	0	KED
	Cu	63	26.902	ug/L	2.265	8	66	58393	1	KED
	Cu	65	27.840	ug/L	2.172	7	34	29426	2	KED
	Zn	66	87.840	ug/L	5.865	6	48	21072	0	KED
	Zn	67	81.517	ug/L	7.214	8	12	3309	2	KED
	As	75	26.544	ug/L	1.610	6	9	3190	0	KED
	Se	78	88.336	ug/L	4.071	4	8	1039	3	KED
	Y	89		ug/L			671656	625695	1	Standard
	Kr	83		ug/L			49	35	30	Standard
>	In-1	115		ug/L			10819	10136	2	KED
	Cd	111	25.853	ug/L	0.868	3	3	4134	2	KED
	Cd	114	25.519	ug/L	1.072	4	2	10144	2	KED
>	In	115		ug/L			1056770	1004317	2	Standard
	Ag	107	25.698	ug/L	0.677	2	93	411034	3	Standard
	Sb	121	-0.019	ug/L	0.001	5	403	138	7	Standard
	Sb	123	-0.018	ug/L	0.002	9	312	118	12	Standard
	Ba	135	25.726	ug/L	0.803	3	41	104499	3	Standard
	Ba	137	25.325	ug/L	0.626	2	86	178881	1	Standard
>	Tb	159		ug/L			1571468	1510667	2	Standard
	Tl	205	25.246	ug/L	0.535	2	263	873435	0	Standard
	Pb	208	25.793	ug/L	0.949	3	268	1157627	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0423-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 17:59:07
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			1100182	976860	2	Standard
⌊	Be	9	-0.003	ug/L	0.001	23	47	27	10	Standard
	C	13		ug/L			21311	40274	3	Standard
	Cl	37		ug/L			4909887	6196334	3	Standard
⌈>	Sc	45		ug/L			1193284	1228968	2	Standard
|	V	51	0.157	ug/L	0.019	12	6716	10588	4	Standard
|	V-1	51	1.068	ug/L	0.026	2	170	25635	1	Standard
|	Cr	52	0.123	ug/L	0.046	37	19601	22642	1	Standard
⌊	Cr	53	3.000	ug/L	0.102	3	121	7370	0	Standard
⌈>	Ge	72		ug/L			36521	33658	1	KED
|	Ni	60	4.374	ug/L	0.227	5	24	3159	5	KED
|	Ni	62	4.200	ug/L	0.312	7	10	516	5	KED
|	Cu	63	1.550	ug/L	0.034	2	66	3449	1	KED
|	Cu	65	1.604	ug/L	0.035	2	34	1738	0	KED
|	Zn	66	6.802	ug/L	0.538	7	48	1683	6	KED
|	Zn	67	7.419	ug/L	0.428	5	12	314	4	KED
|	As	75	0.130	ug/L	0.032	24	9	24	15	KED
⌊	Se	78	0.139	ug/L	0.170	121	8	9	20	KED
	Y	89		ug/L			671656	619266	1	Standard
	Kr	83		ug/L			49	50	39	Standard
⌈>	In-1	115		ug/L			10819	9272	1	KED
|	Cd	111	-0.007	ug/L	0.007	88	3	1	50	KED
⌊	Cd	114	0.018	ug/L	0.015	83	2	8	62	KED
⌈>	In	115		ug/L			1056770	932331	1	Standard
|	Ag	107	0.000	ug/L	0.002	1376	93	83	25	Standard
|	Sb	121	0.100	ug/L	0.002	1	403	1528	0	Standard
|	Sb	123	0.100	ug/L	0.006	5	312	1177	3	Standard
|	Ba	135	8.940	ug/L	0.150	1	41	33734	1	Standard
⌊	Ba	137	9.103	ug/L	0.142	1	86	59761	1	Standard
⌈>	Tb	159		ug/L			1571468	1469659	1	Standard
|	Tl	205	0.006	ug/L	0.000	7	263	459	2	Standard
⌊	Pb	208	1.900	ug/L	0.028	1	268	83228	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0426-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 18:04:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			1100182	1064117	3	Standard
	Be	9	-0.004	ug/L	0.002	56	47	23	52	Standard
	C	13		ug/L			21311	320483	1	Standard
	Cl	37		ug/L			4909887	5056630	1	Standard
>	Sc	45		ug/L			1193284	1136789	1	Standard
	V	51	0.188	ug/L	0.066	34	6716	10467	14	Standard
	V-1	51	0.179	ug/L	0.005	2	170	4116	4	Standard
	Cr	52	17.863	ug/L	0.147	0	19601	351286	2	Standard
	Cr	53	16.798	ug/L	0.205	1	121	37664	2	Standard
>	Ge	72		ug/L			36521	30410	1	KED
	Ni	60	6.346	ug/L	0.188	2	24	4132	3	KED
	Ni	62	6.128	ug/L	0.286	4	10	676	4	KED
	Cu	63	0.513	ug/L	0.050	9	66	1069	9	KED
	Cu	65	0.533	ug/L	0.050	9	34	541	8	KED
	Zn	66	11.914	ug/L	0.201	1	48	2637	2	KED
	Zn	67	12.281	ug/L	0.757	6	12	463	6	KED
	As	75	0.264	ug/L	0.031	11	9	36	7	KED
	Se	78	0.151	ug/L	0.247	163	8	8	29	KED
	Y	89		ug/L			671656	632753	1	Standard
	Kr	83		ug/L			49	81	28	Standard
>	In-1	115		ug/L			10819	9311	1	KED
	Cd	111	0.151	ug/L	0.041	27	3	25	22	KED
	Cd	114	0.189	ug/L	0.030	15	2	71	13	KED
>	In	115		ug/L			1056770	905793	1	Standard
	Ag	107	0.010	ug/L	0.001	14	93	219	8	Standard
	Sb	121	0.112	ug/L	0.003	2	403	1623	1	Standard
	Sb	123	0.111	ug/L	0.006	5	312	1241	3	Standard
	Ba	135	20.657	ug/L	0.101	0	41	75685	1	Standard
	Ba	137	20.588	ug/L	0.350	1	86	131213	1	Standard
>	Tb	159		ug/L			1571468	1464424	2	Standard
	Tl	205	0.001	ug/L	0.001	57	263	278	4	Standard
	Pb	208	0.041	ug/L	0.003	6	268	2036	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0435-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, June 02, 2022 18:09:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			1100182	1055994	0	Standard
	Be	9	-0.005	ug/L	0.000	0	47	15	0	Standard
	C	13		ug/L			21311	149235	1	Standard
	Cl	37		ug/L			4909887	5029798	3	Standard
>	Sc	45		ug/L			1193284	1123311	3	Standard
	V	51	0.194	ug/L	0.004	2	6716	10468	2	Standard
	V-1	51	0.121	ug/L	0.005	3	170	2801	1	Standard
	Cr	52	2.254	ug/L	0.055	2	19601	59909	1	Standard
	Cr	53	1.904	ug/L	0.056	2	121	4317	1	Standard
>	Ge	72		ug/L			36521	32733	1	KED
	Ni	60	1.901	ug/L	0.025	1	24	1348	2	KED
	Ni	62	1.770	ug/L	0.303	17	10	217	15	KED
	Cu	63	2.989	ug/L	0.099	3	66	6414	3	KED
	Cu	65	3.058	ug/L	0.065	2	34	3196	3	KED
	Zn	66	1.997	ug/L	0.143	7	48	511	6	KED
	Zn	67	2.770	ug/L	0.145	5	12	121	3	KED
	As	75	0.048	ug/L	0.007	14	9	14	5	KED
	Se	78	0.077	ug/L	0.148	192	8	8	20	KED
	Y	89		ug/L			671656	611357	1	Standard
	Kr	83		ug/L			49	54	14	Standard
>	In-1	115		ug/L			10819	9016	2	KED
	Cd	111	0.002	ug/L	0.003	185	3	3	17	KED
	Cd	114	0.019	ug/L	0.008	42	2	8	34	KED
>	In	115		ug/L			1056770	919647	1	Standard
	Ag	107	-0.001	ug/L	0.001	59	93	67	11	Standard
	Sb	121	0.011	ug/L	0.002	14	403	481	3	Standard
	Sb	123	0.012	ug/L	0.004	29	312	379	7	Standard
	Ba	135	16.131	ug/L	0.088	0	41	60016	1	Standard
	Ba	137	15.935	ug/L	0.423	2	86	103102	1	Standard
>	Tb	159		ug/L			1571468	1476337	1	Standard
	Tl	205	-0.003	ug/L	0.000	7	263	154	3	Standard
	Pb	208	0.005	ug/L	0.001	12	268	467	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0442-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, June 02, 2022 18:15:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			1100182	1143827	2	Standard
	Be	9	-0.004	ug/L	0.001	15	47	22	17	Standard
	C	13		ug/L			21311	207511	2	Standard
	Cl	37		ug/L			4909887	5154479	2	Standard
>	Sc	45		ug/L			1193284	1179474	0	Standard
	V	51	-1.652	ug/L	0.216	13	6716	-30436	15	Standard
	V-1	51	0.186	ug/L	0.002	0	170	4415	1	Standard
	Cr	52	95.897	ug/L	0.386	0	19601	1871885	0	Standard
	Cr	53	95.959	ug/L	0.815	0	121	222668	0	Standard
>	Ge	72		ug/L			36521	34014	0	KED
	Ni	60	7.292	ug/L	0.104	1	24	5307	1	KED
	Ni	62	6.746	ug/L	0.155	2	10	832	2	KED
	Cu	63	2.275	ug/L	0.096	4	66	5089	4	KED
	Cu	65	2.277	ug/L	0.110	4	34	2482	4	KED
	Zn	66	90.375	ug/L	1.833	2	48	22074	1	KED
	Zn	67	83.285	ug/L	1.784	2	12	3446	2	KED
	As	75	0.298	ug/L	0.034	11	9	45	8	KED
	Se	78	0.093	ug/L	0.164	176	8	9	20	KED
	Y	89		ug/L			671656	643745	1	Standard
	Kr	83		ug/L			49	54	5	Standard
>	In-1	115		ug/L			10819	9538	0	KED
	Cd	111	0.923	ug/L	0.095	10	3	141	10	KED
	Cd	114	0.868	ug/L	0.085	9	2	327	10	KED
>	In	115		ug/L			1056770	962938	1	Standard
	Ag	107	0.063	ug/L	0.004	5	93	1053	4	Standard
	Sb	121	0.230	ug/L	0.014	6	403	3159	3	Standard
	Sb	123	0.221	ug/L	0.007	3	312	2342	1	Standard
	Ba	135	11.731	ug/L	0.260	2	41	45698	0	Standard
	Ba	137	11.600	ug/L	0.285	2	86	78613	0	Standard
>	Tb	159		ug/L			1571468	1525226	2	Standard
	Tl	205	0.003	ug/L	0.001	22	263	343	4	Standard
	Pb	208	0.215	ug/L	0.010	4	268	10022	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0245-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 18:22:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			1100182	1052891	2	Standard
	Be	9	0.093	ug/L	0.002	1	47	594	2	Standard
	C	13		ug/L			21311	33650	0	Standard
	Cl	37		ug/L			4909887	4760213	1	Standard
>	Sc	45		ug/L			1193284	1196430	2	Standard
	V	51	31.175	ug/L	0.942	3	6716	716566	0	Standard
	V-1	51	30.728	ug/L	0.952	3	170	713112	0	Standard
	Cr	52	8.974	ug/L	0.071	0	19601	195492	2	Standard
	Cr	53	8.870	ug/L	0.162	1	121	20985	1	Standard
>	Ge	72		ug/L			36521	35881	0	KED
	Ni	60	6.665	ug/L	0.099	1	24	5119	1	KED
	Ni	62	7.060	ug/L	0.389	5	10	918	6	KED
	Cu	63	12.566	ug/L	0.262	2	66	29358	2	KED
	Cu	65	13.089	ug/L	0.086	0	34	14884	0	KED
	Zn	66	22.835	ug/L	0.848	3	48	5919	3	KED
	Zn	67	22.550	ug/L	1.190	5	12	993	6	KED
	As	75	1.794	ug/L	0.026	1	9	240	0	KED
	Se	78	0.701	ug/L	0.437	62	8	17	31	KED
	Y	89		ug/L			671656	807256	1	Standard
	Kr	83		ug/L			49	82	17	Standard
>	In-1	115		ug/L			10819	10430	1	KED
	Cd	111	0.026	ug/L	0.007	25	3	7	12	KED
	Cd	114	0.027	ug/L	0.009	34	2	13	29	KED
>	In	115		ug/L			1056770	998558	0	Standard
	Ag	107	0.029	ug/L	0.004	12	93	554	10	Standard
	Sb	121	-0.015	ug/L	0.001	7	403	198	6	Standard
	Sb	123	-0.014	ug/L	0.002	12	312	159	9	Standard
	Ba	135	17.909	ug/L	0.277	1	41	72344	1	Standard
	Ba	137	17.960	ug/L	0.518	2	86	126207	3	Standard
>	Tb	159		ug/L			1571468	1541934	0	Standard
	Tl	205	0.027	ug/L	0.002	8	263	1219	6	Standard
	Pb	208	4.016	ug/L	0.024	0	268	184303	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 18:27:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1100182	975922	1	Standard
	Be	**9**	**-0.004**	ug/L	0.001	27	47	20	30	Standard
	C	**13**		ug/L			21311	23770	1	Standard
	Cl	**37**		ug/L			4909887	4561672	2	Standard
>	**Sc**	**45**		ug/L			1193284	1106199	2	Standard
	V	**51**	**-0.009**	ug/L	0.002	21	6716	6029	1	Standard
	V-1	**51**	**0.004**	ug/L	0.001	29	170	235	11	Standard
	Cr	**52**	**-0.000**	ug/L	0.000	205	19601	18166	1	Standard
	Cr	**53**	**0.040**	ug/L	0.009	23	121	200	12	Standard
>	**Ge**	**72**		ug/L			36521	34769	0	KED
	Ni	**60**	**0.059**	ug/L	0.010	17	24	67	11	KED
	Ni	**62**	**0.004**	ug/L	0.047	1110	10	10	53	KED
	Cu	**63**	**0.566**	ug/L	0.004	0	66	1340	0	KED
	Cu	**65**	**0.579**	ug/L	0.042	7	34	669	6	KED
	Zn	**66**	**1.869**	ug/L	0.066	3	48	511	3	KED
	Zn	**67**	**1.716**	ug/L	0.424	24	12	84	21	KED
	As	**75**	**-0.012**	ug/L	0.011	94	9	7	17	KED
	Se	**78**	**-0.016**	ug/L	0.097	613	8	8	14	KED
	Y	**89**		ug/L			671656	627064	1	Standard
	Kr	**83**		ug/L			49	42	20	Standard
>	**In-1**	**115**		ug/L			10819	9935	1	KED
	Cd	**111**	**-0.004**	ug/L	0.004	89	3	2	21	KED
	Cd	**114**	**0.008**	ug/L	0.005	62	2	5	35	KED
>	**In**	**115**		ug/L			1056770	981032	0	Standard
	Ag	**107**	**-0.000**	ug/L	0.000	141	93	84	3	Standard
	Sb	**121**	**-0.020**	ug/L	0.001	3	403	125	6	Standard
	Sb	**123**	**-0.019**	ug/L	0.001	3	312	109	5	Standard
	Ba	**135**	**0.133**	ug/L	0.008	5	41	565	4	Standard
	Ba	**137**	**0.135**	ug/L	0.007	5	86	1014	4	Standard
>	**Tb**	**159**		ug/L			1571468	1466018	1	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	30	263	200	6	Standard
	Pb	**208**	**0.034**	ug/L	0.001	3	268	1746	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 18:32:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1100182	961364	5	Standard
	Be	**9**	**49.485**	ug/L	4.071	8	47	266591	2	Standard
	C	**13**		ug/L			21311	22156	2	Standard
	Cl	**37**		ug/L			4909887	4687356	2	Standard
>	**Sc**	**45**		ug/L			1193284	1075794	1	Standard
	V	**51**	**49.660**	ug/L	0.335	0	6716	1023218	1	Standard
	V-1	**51**	**49.504**	ug/L	0.439	0	170	1033426	1	Standard
	Cr	**52**	**48.756**	ug/L	0.645	1	19601	876610	0	Standard
	Cr	**53**	**48.318**	ug/L	0.613	1	121	102321	2	Standard
>	**Ge**	**72**		ug/L			36521	33234	1	KED
	Ni	**60**	**45.502**	ug/L	0.578	1	24	32238	1	KED
	Ni	**62**	**45.142**	ug/L	1.382	3	10	5387	3	KED
	Cu	**63**	**46.302**	ug/L	1.060	2	66	100005	1	KED
	Cu	**65**	**47.102**	ug/L	1.504	3	34	49512	1	KED
	Zn	**66**	**47.236**	ug/L	1.658	3	48	11289	1	KED
	Zn	**67**	**48.264**	ug/L	1.171	2	12	1955	1	KED
	As	**75**	**48.674**	ug/L	1.046	2	9	5811	1	KED
	Se	**78**	**49.223**	ug/L	3.500	7	8	579	7	KED
	Y	**89**		ug/L			671656	613637	0	Standard
	Kr	**83**		ug/L			49	46	11	Standard
>	**In-1**	**115**		ug/L			10819	9566	1	KED
	Cd	**111**	**48.541**	ug/L	0.431	0	3	7325	1	KED
	Cd	**114**	**48.736**	ug/L	1.015	2	2	18289	0	KED
>	**In**	**115**		ug/L			1056770	941775	0	Standard
	Ag	**107**	**48.516**	ug/L	0.437	0	93	727652	1	Standard
	Sb	**121**	**49.083**	ug/L	0.251	0	403	584448	0	Standard
	Sb	**123**	**49.599**	ug/L	0.574	1	312	451897	0	Standard
	Ba	**135**	**49.524**	ug/L	0.559	1	41	188602	0	Standard
	Ba	**137**	**50.109**	ug/L	0.240	0	86	331957	1	Standard
>	**Tb**	**159**		ug/L			1571468	1472418	2	Standard
	Tl	**205**	**45.832**	ug/L	1.031	2	263	1545298	0	Standard
	Pb	**208**	**46.925**	ug/L	1.286	2	268	2052855	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, June 02, 2022 18:40:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			0	966459	4	Standard
⌊	Be	9		ug/L			0	23	24	Standard
	C	13		ug/L			0	21350	2	Standard
	Cl	37		ug/L			0	4613355	0	Standard
⌈>	Sc	45		ug/L			0	1071113	0	Standard
|	V	51		ug/L			0	5932	1	Standard
|	V-1	51		ug/L			0	115	1	Standard
|	Cr	52		ug/L			0	17508	1	Standard
⌊	Cr	53		ug/L			0	118	14	Standard
⌈>	Ge	72		ug/L			0	33851	0	KED
|	Ni	60		ug/L			0	17	44	KED
|	Ni	62		ug/L			0	3	69	KED
|	Cu	63		ug/L			0	45	8	KED
|	Cu	65		ug/L			0	18	33	KED
|	Zn	66		ug/L			0	36	18	KED
|	Zn	67		ug/L			0	11	76	KED
|	As	75		ug/L			0	7	6	KED
⌊	Se	78		ug/L			0	11	10	KED
	Y	89		ug/L			0	600397	2	Standard
	Kr	83		ug/L			0	37	16	Standard
⌈>	In-1	115		ug/L			0	9820	3	KED
|	Cd	111		ug/L			0	3	121	KED
⌊	Cd	114		ug/L			0	5	43	KED
⌈>	In	115		ug/L			0	955130	1	Standard
|	Ag	107		ug/L			0	90	10	Standard
|	Sb	121		ug/L			0	575	3	Standard
|	Sb	123		ug/L			0	405	4	Standard
|	Ba	135		ug/L			0	27	14	Standard
⌊	Ba	137		ug/L			0	50	7	Standard
⌈>	Tb	159		ug/L			0	1441470	1	Standard
|	Tl	205		ug/L			0	190	12	Standard
⌊	Pb	208		ug/L			0	179	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 18:40:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			1100182	966459	4	Standard
	Be	**9**	**-0.003**	ug/L	0.001	29	47	23	24	Standard
	C	**13**		ug/L			21311	21350	2	Standard
	Cl	**37**		ug/L			4909887	4613355	0	Standard
>	**Sc**	**45**		ug/L			1193284	1071113	0	Standard
	V	**51**	**-0.005**	ug/L	0.004	90	6716	5932	1	Standard
	V-1	**51**	**-0.002**	ug/L	0.000	6	170	115	1	Standard
	Cr	**52**	**-0.005**	ug/L	0.013	262	19601	17508	1	Standard
	Cr	**53**	**0.004**	ug/L	0.008	172	121	118	14	Standard
>	**Ge**	**72**		ug/L			36521	33851	0	KED
	Ni	**60**	**-0.008**	ug/L	0.011	134	24	17	44	KED
	Ni	**62**	**-0.056**	ug/L	0.018	32	10	3	69	KED
	Cu	**63**	**-0.007**	ug/L	0.002	26	66	45	8	KED
	Cu	**65**	**-0.013**	ug/L	0.006	43	34	18	33	KED
	Zn	**66**	**-0.035**	ug/L	0.029	83	48	36	18	KED
	Zn	**67**	**-0.007**	ug/L	0.214	2907	12	11	76	KED
	As	**75**	**-0.009**	ug/L	0.004	46	9	7	6	KED
	Se	**78**	**0.286**	ug/L	0.105	36	8	11	10	KED
	Y	**89**		ug/L			671656	600397	2	Standard
	Kr	**83**		ug/L			49	37	16	Standard
>	**In-1**	**115**		ug/L			10819	9820	3	KED
	Cd	**111**	**0.000**	ug/L	0.025	11814	3	3	121	KED
	Cd	**114**	**0.007**	ug/L	0.006	80	2	5	43	KED
>	**In**	**115**		ug/L			1056770	955130	1	Standard
	Ag	**107**	**0.000**	ug/L	0.001	158	93	90	10	Standard
	Sb	**121**	**0.017**	ug/L	0.001	7	403	575	3	Standard
	Sb	**123**	**0.013**	ug/L	0.002	15	312	405	4	Standard
	Ba	**135**	**-0.002**	ug/L	0.001	40	41	27	14	Standard
	Ba	**137**	**-0.004**	ug/L	0.001	13	86	50	7	Standard
>	**Tb**	**159**		ug/L			1571468	1441470	1	Standard
	Tl	**205**	**-0.002**	ug/L	0.001	39	263	190	12	Standard
	Pb	**208**	**-0.002**	ug/L	0.001	39	268	179	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 18:49:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L				912236	0	Standard
⌊	**Be**	**9**		ug/L				12	22	Standard
	C	**13**		ug/L				19975	1	Standard
	Cl	**37**		ug/L				4527886	0	Standard
⌈>	**Sc**	**45**		ug/L				1043673	1	Standard
|	**V**	**51**		ug/L				5872	0	Standard
|	**V-1**	**51**		ug/L				112	4	Standard
|	**Cr**	**52**		ug/L				17301	1	Standard
⌊	**Cr**	**53**		ug/L				113	7	Standard
⌈>	**Ge**	**72**		ug/L				32454	0	KED
|	**Ni**	**60**		ug/L				11	60	KED
|	**Ni**	**62**		ug/L				3	124	KED
|	**Cu**	**63**		ug/L				24	29	KED
|	**Cu**	**65**		ug/L				19	20	KED
|	**Zn**	**66**		ug/L				32	15	KED
|	**Zn**	**67**		ug/L				5	57	KED
|	**As**	**75**		ug/L				7	6	KED
⌊	**Se**	**78**		ug/L				7	15	KED
	Y	**89**		ug/L				596586	1	Standard
	Kr	**83**		ug/L				40	11	Standard
⌈>	**In-1**	**115**		ug/L				9473	2	KED
|	**Cd**	**111**		ug/L				2	57	KED
⌊	**Cd**	**114**		ug/L				3	89	KED
⌈>	**In**	**115**		ug/L				934250	1	Standard
|	**Ag**	**107**		ug/L				53	28	Standard
|	**Sb**	**121**		ug/L				226	9	Standard
|	**Sb**	**123**		ug/L				166	15	Standard
|	**Ba**	**135**		ug/L				32	11	Standard
⌊	**Ba**	**137**		ug/L				55	22	Standard
⌈>	**Tb**	**159**		ug/L				1418865	0	Standard
|	**Tl**	**205**		ug/L				130	0	Standard
⌊	**Pb**	**208**		ug/L				179	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 18:54:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			912236	902021	1	Standard
	Be	**9**	**50.831**	ug/L	0.919	1	12	257719	0	Standard
	C	**13**		ug/L			19975	20908	1	Standard
	Cl	**37**		ug/L			4527886	4626083	1	Standard
>	**Sc**	**45**		ug/L			1043673	1032739	0	Standard
	V	**51**	**50.291**	ug/L	0.150	0	5872	994687	0	Standard
	V-1	**51**	**49.960**	ug/L	0.338	0	112	1001128	0	Standard
	Cr	**52**	**50.128**	ug/L	0.313	0	17301	864985	0	Standard
	Cr	**53**	**49.094**	ug/L	0.704	1	113	99803	0	Standard
>	**Ge**	**72**		ug/L			32454	31998	1	KED
	Ni	**60**	**46.850**	ug/L	1.408	3	11	31942	1	KED
	Ni	**62**	**45.214**	ug/L	0.584	1	3	5188	1	KED
	Cu	**63**	**46.219**	ug/L	0.751	1	24	96080	0	KED
	Cu	**65**	**47.801**	ug/L	0.628	1	19	48378	0	KED
	Zn	**66**	**48.603**	ug/L	1.551	3	32	11175	2	KED
	Zn	**67**	**47.631**	ug/L	0.494	1	5	1852	2	KED
	As	**75**	**49.228**	ug/L	0.966	1	7	5657	2	KED
	Se	**78**	**49.575**	ug/L	0.518	1	7	561	1	KED
	Y	**89**		ug/L			596586	598973	1	Standard
	Kr	**83**		ug/L			40	43	15	Standard
>	**In-1**	**115**		ug/L			9473	9411	2	KED
	Cd	**111**	**47.354**	ug/L	0.714	1	2	7029	1	KED
	Cd	**114**	**48.375**	ug/L	0.025	0	3	17865	2	KED
>	**In**	**115**		ug/L			934250	923840	1	Standard
	Ag	**107**	**48.646**	ug/L	0.987	2	53	715648	2	Standard
	Sb	**121**	**49.627**	ug/L	0.264	0	226	579525	0	Standard
	Sb	**123**	**50.052**	ug/L	0.506	1	166	447231	0	Standard
	Ba	**135**	**50.070**	ug/L	0.546	1	32	187041	0	Standard
	Ba	**137**	**50.034**	ug/L	0.455	0	55	325100	0	Standard
>	**Tb**	**159**		ug/L			1418865	1443879	1	Standard
	Tl	**205**	**46.039**	ug/L	1.749	3	130	1521980	2	Standard
	Pb	**208**	**47.370**	ug/L	1.855	3	179	2032053	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 19:02:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			912236	942818	0	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.001	712	12	12	63	Standard
	C	**13**		ug/L			19975	19975	2	Standard
	Cl	**37**		ug/L			4527886	4529557	1	Standard
⌈>	**Sc**	**45**		ug/L			1043673	1028127	2	Standard
⌈	**V**	**51**	**-0.000**	ug/L	0.003	668	5872	5775	1	Standard
⌈	**V-1**	**51**	**-0.000**	ug/L	0.001	171	112	102	11	Standard
⌈	**Cr**	**52**	**0.000**	ug/L	0.012	8844	17301	17043	1	Standard
⌊	**Cr**	**53**	**0.000**	ug/L	0.004	1723	113	111	6	Standard
⌈>	**Ge**	**72**		ug/L			32454	32653	2	KED
⌈	**Ni**	**60**	**0.013**	ug/L	0.004	27	11	20	14	KED
⌈	**Ni**	**62**	**0.000**	ug/L	0.025	46224	3	3	91	KED
⌈	**Cu**	**63**	**0.006**	ug/L	0.003	47	24	38	18	KED
⌈	**Cu**	**65**	**0.002**	ug/L	0.006	318	19	20	27	KED
⌈	**Zn**	**66**	**0.008**	ug/L	0.019	252	32	34	11	KED
⌈	**Zn**	**67**	**0.032**	ug/L	0.058	180	5	6	34	KED
⌈	**As**	**75**	**-0.014**	ug/L	0.024	167	7	5	52	KED
⌊	**Se**	**78**	**0.000**	ug/L	0.018	7801	7	8	0	KED
	Y	**89**		ug/L			596586	583816	2	Standard
	Kr	**83**		ug/L			40	34	25	Standard
⌈>	**In-1**	**115**		ug/L			9473	9228	1	KED
⌈	**Cd**	**111**	**-0.006**	ug/L	0.010	162	2	1	91	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.005	1134	3	3	50	KED
⌈>	**In**	**115**		ug/L			934250	932758	1	Standard
⌈	**Ag**	**107**	**0.003**	ug/L	0.001	33	53	104	14	Standard
⌈	**Sb**	**121**	**0.028**	ug/L	0.002	5	226	558	2	Standard
⌈	**Sb**	**123**	**0.030**	ug/L	0.003	9	166	434	4	Standard
⌈	**Ba**	**135**	**-0.000**	ug/L	0.000	114	32	31	3	Standard
⌊	**Ba**	**137**	**-0.001**	ug/L	0.001	56	55	48	9	Standard
⌈>	**Tb**	**159**		ug/L			1418865	1422361	1	Standard
⌈	**Tl**	**205**	**0.001**	ug/L	0.000	43	130	150	5	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	2244	179	179	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0436-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 19:10:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
> Li	6		ug/L			912236	1365161	1	Standard
Be	9	-0.001	ug/L	0.001	153	12	13	62	Standard
C	13		ug/L			19975	43273	0	Standard
Cl	37		ug/L			4527886	5069165	1	Standard
> Sc	45		ug/L			1043673	1087396	1	Standard
V	51	0.870	ug/L	0.120	13	5872	24116	8	Standard
V-1	51	1.134	ug/L	0.028	2	112	24034	1	Standard
Cr	52	15.701	ug/L	0.199	1	17301	297616	0	Standard
Cr	53	15.661	ug/L	0.300	1	113	33604	2	Standard
> Ge	72		ug/L			32454	28947	0	KED
Ni	60	1.232	ug/L	0.117	9	11	769	8	KED
Ni	62	1.258	ug/L	0.046	3	3	133	2	KED
Cu	63	8.155	ug/L	0.128	1	24	15355	1	KED
Cu	65	8.321	ug/L	0.242	2	19	7633	2	KED
Zn	66	4.839	ug/L	0.274	5	32	1032	4	KED
Zn	67	4.288	ug/L	0.766	17	5	154	16	KED
As	75	0.061	ug/L	0.010	16	7	12	7	KED
Se	78	0.010	ug/L	0.099	1008	7	7	14	KED
Y	89		ug/L			596586	609689	0	Standard
Kr	83		ug/L			40	62	15	Standard
> In-1	115		ug/L			9473	8148	2	KED
Cd	111	0.018	ug/L	0.004	20	2	4	12	KED
Cd	114	-0.003	ug/L	0.004	146	3	2	47	KED
> In	115		ug/L			934250	869007	1	Standard
Ag	107	0.002	ug/L	0.001	36	53	74	11	Standard
Sb	121	0.189	ug/L	0.003	1	226	2280	2	Standard
Sb	123	0.183	ug/L	0.004	1	166	1690	1	Standard
Ba	135	1.205	ug/L	0.038	3	32	4262	2	Standard
Ba	137	1.166	ug/L	0.009	0	55	7177	1	Standard
> Tb	159		ug/L			1418865	1408885	0	Standard
Tl	205	0.011	ug/L	0.000	2	130	493	2	Standard
Pb	208	0.019	ug/L	0.000	2	179	969	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0436-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 19:16:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1278332	2	Standard
	Be	9	-0.001	ug/L	0.000	39	12	12	17	Standard
	C	13		ug/L			19975	42547	3	Standard
	Cl	37		ug/L			4527886	5086225	1	Standard
>	Sc	45		ug/L			1043673	1098896	2	Standard
	V	51	0.975	ug/L	0.039	4	5872	26597	4	Standard
	V-1	51	1.478	ug/L	0.024	1	112	31621	1	Standard
	Cr	52	29.778	ug/L	0.568	1	17301	553979	1	Standard
	Cr	53	29.670	ug/L	0.597	2	113	64206	1	Standard
>	Ge	72		ug/L			32454	29261	0	KED
	Ni	60	1.386	ug/L	0.091	6	11	874	6	KED
	Ni	62	1.505	ug/L	0.221	14	3	160	13	KED
	Cu	63	10.166	ug/L	0.118	1	24	19344	0	KED
	Cu	65	10.450	ug/L	0.295	2	19	9684	2	KED
	Zn	66	6.544	ug/L	0.187	2	32	1401	2	KED
	Zn	67	6.068	ug/L	0.890	14	5	219	13	KED
	As	75	0.072	ug/L	0.003	4	7	13	1	KED
	Se	78	0.406	ug/L	0.252	62	7	11	22	KED
	Y	89		ug/L			596586	616693	1	Standard
	Kr	83		ug/L			40	76	27	Standard
>	In-1	115		ug/L			9473	8219	1	KED
	Cd	111	0.003	ug/L	0.008	325	2	2	43	KED
	Cd	114	0.007	ug/L	0.015	231	3	5	91	KED
>	In	115		ug/L			934250	884614	0	Standard
	Ag	107	0.001	ug/L	0.001	55	53	71	14	Standard
	Sb	121	0.152	ug/L	0.007	4	226	1913	3	Standard
	Sb	123	0.156	ug/L	0.008	4	166	1491	3	Standard
	Ba	135	1.221	ug/L	0.022	1	32	4398	1	Standard
	Ba	137	1.233	ug/L	0.029	2	55	7720	2	Standard
>	Tb	159		ug/L			1418865	1443432	1	Standard
	Tl	205	0.011	ug/L	0.001	4	130	497	3	Standard
	Pb	208	0.032	ug/L	0.001	4	179	1563	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0436-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 19:21:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1189382	1	Standard
	Be	9	-0.001	ug/L	0.001	89	12	8	75	Standard
	C	13		ug/L			19975	51076	1	Standard
	Cl	37		ug/L			4527886	5027896	1	Standard
>	Sc	45		ug/L			1043673	1110275	1	Standard
	V	51	0.962	ug/L	0.092	9	5872	26587	8	Standard
	V-1	51	1.145	ug/L	0.026	2	112	24788	1	Standard
	Cr	52	13.463	ug/L	0.165	1	17301	263197	1	Standard
	Cr	53	13.307	ug/L	0.302	2	113	29165	0	Standard
>	Ge	72		ug/L			32454	29247	1	KED
	Ni	60	1.104	ug/L	0.061	5	11	698	5	KED
	Ni	62	1.228	ug/L	0.176	14	3	131	12	KED
	Cu	63	9.292	ug/L	0.110	1	24	17675	1	KED
	Cu	65	9.390	ug/L	0.074	0	19	8701	1	KED
	Zn	66	5.172	ug/L	0.251	4	32	1113	5	KED
	Zn	67	4.619	ug/L	0.617	13	5	168	12	KED
	As	75	0.052	ug/L	0.023	44	7	11	21	KED
	Se	78	0.358	ug/L	0.134	37	7	10	12	KED
	Y	89		ug/L			596586	620113	0	Standard
	Kr	83		ug/L			40	80	20	Standard
>	In-1	115		ug/L			9473	8526	2	KED
	Cd	111	-0.003	ug/L	0.007	260	2	1	50	KED
	Cd	114	-0.003	ug/L	0.009	323	3	2	120	KED
>	In	115		ug/L			934250	888881	1	Standard
	Ag	107	0.001	ug/L	0.001	142	53	64	30	Standard
	Sb	121	0.128	ug/L	0.004	3	226	1652	1	Standard
	Sb	123	0.130	ug/L	0.004	2	166	1278	2	Standard
	Ba	135	1.311	ug/L	0.002	0	32	4741	1	Standard
	Ba	137	1.288	ug/L	0.005	0	55	8102	1	Standard
>	Tb	159		ug/L			1418865	1458644	1	Standard
	Tl	205	0.010	ug/L	0.001	7	130	478	3	Standard
	Pb	208	0.014	ug/L	0.001	5	179	793	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0436-05
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 19:26:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1102074	3	Standard
	Be	9	-0.001	ug/L	0.000	16	12	8	13	Standard
	C	13		ug/L			19975	61611	2	Standard
	Cl	37		ug/L			4527886	5048787	2	Standard
>	Sc	45		ug/L			1043673	1110702	0	Standard
	V	51	0.892	ug/L	0.108	12	5872	25101	8	Standard
	V-1	51	1.149	ug/L	0.028	2	112	24882	1	Standard
	Cr	52	12.384	ug/L	0.160	1	17301	243691	1	Standard
	Cr	53	12.521	ug/L	0.127	1	113	27467	1	Standard
>	Ge	72		ug/L			32454	29985	1	KED
	Ni	60	1.145	ug/L	0.065	5	11	742	5	KED
	Ni	62	1.442	ug/L	0.247	17	3	158	17	KED
	Cu	63	10.777	ug/L	0.022	0	24	21014	1	KED
	Cu	65	11.142	ug/L	0.118	1	19	10581	0	KED
	Zn	66	5.640	ug/L	0.328	5	32	1241	4	KED
	Zn	67	5.234	ug/L	0.353	6	5	194	5	KED
	As	75	0.073	ug/L	0.018	25	7	14	13	KED
	Se	78	0.167	ug/L	0.229	137	7	9	26	KED
	Y	89		ug/L			596586	617156	0	Standard
	Kr	83		ug/L			40	88	10	Standard
>	In-1	115		ug/L			9473	8463	2	KED
	Cd	111	-0.003	ug/L	0.014	477	2	1	100	KED
	Cd	114	0.007	ug/L	0.010	143	3	5	58	KED
>	In	115		ug/L			934250	892184	1	Standard
	Ag	107	0.001	ug/L	0.000	38	53	67	9	Standard
	Sb	121	0.144	ug/L	0.005	3	226	1842	1	Standard
	Sb	123	0.146	ug/L	0.003	1	166	1420	1	Standard
	Ba	135	1.968	ug/L	0.056	2	32	7127	2	Standard
	Ba	137	1.996	ug/L	0.093	4	55	12571	3	Standard
>	Tb	159		ug/L			1418865	1443802	1	Standard
	Tl	205	0.012	ug/L	0.001	6	130	522	4	Standard
	Pb	208	0.013	ug/L	0.001	7	179	734	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0436-06
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 19:31:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1049487	1	Standard
	Be	9	-0.001	ug/L	0.001	80	12	10	26	Standard
	C	13		ug/L			19975	53485	1	Standard
	Cl	37		ug/L			4527886	5124331	1	Standard
>	Sc	45		ug/L			1043673	1100129	1	Standard
	V	51	1.628	ug/L	0.176	10	5872	40320	10	Standard
	V-1	51	1.760	ug/L	0.010	0	112	37681	2	Standard
	Cr	52	16.257	ug/L	0.267	1	17301	311156	2	Standard
	Cr	53	15.813	ug/L	0.431	2	113	34316	1	Standard
>	Ge	72		ug/L			32454	29175	0	KED
	Ni	60	1.655	ug/L	0.055	3	11	1038	2	KED
	Ni	62	1.971	ug/L	0.114	5	3	208	5	KED
	Cu	63	16.107	ug/L	0.136	0	24	30546	0	KED
	Cu	65	16.407	ug/L	0.267	1	19	15152	1	KED
	Zn	66	9.135	ug/L	0.491	5	32	1938	4	KED
	Zn	67	8.735	ug/L	0.831	9	5	313	10	KED
	As	75	0.110	ug/L	0.019	17	7	17	10	KED
	Se	78	0.331	ug/L	0.143	43	7	10	14	KED
	Y	89		ug/L			596586	612734	0	Standard
	Kr	83		ug/L			40	80	7	Standard
>	In-1	115		ug/L			9473	8476	2	KED
	Cd	111	0.009	ug/L	0.005	49	2	3	15	KED
	Cd	114	0.001	ug/L	0.006	656	3	3	52	KED
>	In	115		ug/L			934250	891196	0	Standard
	Ag	107	0.002	ug/L	0.000	15	53	74	5	Standard
	Sb	121	0.201	ug/L	0.008	4	226	2480	3	Standard
	Sb	123	0.208	ug/L	0.004	2	166	1951	1	Standard
	Ba	135	1.646	ug/L	0.051	3	32	5959	2	Standard
	Ba	137	1.657	ug/L	0.023	1	55	10434	1	Standard
>	Tb	159		ug/L			1418865	1441134	1	Standard
	Tl	205	0.010	ug/L	0.001	10	130	448	5	Standard
	Pb	208	0.017	ug/L	0.001	8	179	901	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0436-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 19:36:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1293981	1	Standard
	Be	9	-0.001	ug/L	0.000	42	12	10	26	Standard
	C	13		ug/L			19975	45005	3	Standard
	Cl	37		ug/L			4527886	5150417	0	Standard
>	Sc	45		ug/L			1043673	1094378	1	Standard
	V	51	0.916	ug/L	0.058	6	5872	25244	5	Standard
	V-1	51	1.247	ug/L	0.030	2	112	26589	0	Standard
	Cr	52	18.809	ug/L	0.606	3	17301	355154	1	Standard
	Cr	53	18.802	ug/L	0.626	3	113	40562	1	Standard
>	Ge	72		ug/L			32454	29309	0	KED
	Ni	60	1.567	ug/L	0.075	4	11	988	4	KED
	Ni	62	1.889	ug/L	0.075	3	3	201	3	KED
	Cu	63	9.016	ug/L	0.305	3	24	17187	3	KED
	Cu	65	9.288	ug/L	0.095	1	19	8625	1	KED
	Zn	66	5.560	ug/L	0.211	3	32	1196	3	KED
	Zn	67	5.375	ug/L	0.682	12	5	195	12	KED
	As	75	0.084	ug/L	0.023	27	7	15	15	KED
	Se	78	0.151	ug/L	0.071	47	7	8	8	KED
	Y	89		ug/L			596586	614625	0	Standard
	Kr	83		ug/L			40	83	4	Standard
>	In-1	115		ug/L			9473	8457	1	KED
	Cd	111	0.007	ug/L	0.011	161	2	3	45	KED
	Cd	114	0.006	ug/L	0.006	92	3	5	35	KED
>	In	115		ug/L			934250	879547	1	Standard
	Ag	107	0.001	ug/L	0.000	2	53	71	1	Standard
	Sb	121	0.188	ug/L	0.006	3	226	2304	2	Standard
	Sb	123	0.189	ug/L	0.004	2	166	1762	2	Standard
	Ba	135	1.287	ug/L	0.028	2	32	4607	1	Standard
	Ba	137	1.281	ug/L	0.008	0	55	7977	1	Standard
>	Tb	159		ug/L			1418865	1443706	0	Standard
	Tl	205	0.009	ug/L	0.001	5	130	439	3	Standard
	Pb	208	0.019	ug/L	0.003	16	179	1000	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0052-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 19:41:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1266060	0	Standard
	Be	9	-0.001	ug/L	0.000	1	12	9	0	Standard
	C	13		ug/L			19975	43825	1	Standard
	Cl	37		ug/L			4527886	5146187	1	Standard
>	Sc	45		ug/L			1043673	1083001	2	Standard
	V	51	1.040	ug/L	0.109	10	5872	27531	8	Standard
	V-1	51	1.258	ug/L	0.026	2	112	26538	0	Standard
	Cr	52	19.225	ug/L	0.724	3	17301	358770	1	Standard
	Cr	53	18.844	ug/L	0.757	4	113	40223	1	Standard
>	Ge	72		ug/L			32454	29705	2	KED
	Ni	60	1.521	ug/L	0.107	7	11	972	5	KED
	Ni	62	1.906	ug/L	0.078	4	3	205	1	KED
	Cu	63	9.034	ug/L	0.170	1	24	17450	0	KED
	Cu	65	9.137	ug/L	0.122	1	19	8597	1	KED
	Zn	66	5.635	ug/L	0.165	2	32	1228	1	KED
	Zn	67	4.695	ug/L	0.565	12	5	173	13	KED
	As	75	0.082	ug/L	0.010	12	7	15	6	KED
	Se	78	0.172	ug/L	0.129	74	7	9	12	KED
	Y	89		ug/L			596586	614242	0	Standard
	Kr	83		ug/L			40	84	10	Standard
>	In-1	115		ug/L			9473	7349	20	KED
	Cd	111	0.011	ug/L	0.024	222	2	2	66	KED
	Cd	114	-0.005	ug/L	0.006	118	3	1	118	KED
>	In	115		ug/L			934250	878006	0	Standard
	Ag	107	0.001	ug/L	0.001	63	53	62	13	Standard
	Sb	121	0.189	ug/L	0.004	1	226	2304	1	Standard
	Sb	123	0.192	ug/L	0.008	4	166	1788	4	Standard
	Ba	135	1.238	ug/L	0.013	1	32	4426	1	Standard
	Ba	137	1.238	ug/L	0.014	1	55	7692	0	Standard
>	Tb	159		ug/L			1418865	1430148	0	Standard
	Tl	205	0.011	ug/L	0.001	7	130	502	5	Standard
	Pb	208	0.017	ug/L	0.001	7	179	893	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0052-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 19:48:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1276278	1	Standard
	Be	9	15.128	ug/L	0.458	3	12	108527	2	Standard
	C	13		ug/L			19975	42663	0	Standard
	Cl	37		ug/L			4527886	5264504	1	Standard
>	Sc	45		ug/L			1043673	1074370	3	Standard
	V	51	26.486	ug/L	0.715	2	5872	547518	0	Standard
	V-1	51	26.791	ug/L	0.682	2	112	558250	1	Standard
	Cr	52	43.027	ug/L	1.842	4	17301	774213	1	Standard
	Cr	53	43.016	ug/L	1.803	4	113	90918	2	Standard
>	Ge	72		ug/L			32454	29350	2	KED
	Ni	60	25.880	ug/L	0.222	0	11	16195	2	KED
	Ni	62	25.836	ug/L	0.726	2	3	2719	1	KED
	Cu	63	32.189	ug/L	0.281	0	24	61391	2	KED
	Cu	65	33.087	ug/L	0.580	1	19	30716	0	KED
	Zn	66	72.389	ug/L	1.294	1	32	15251	0	KED
	Zn	67	67.416	ug/L	3.907	5	5	2402	5	KED
	As	75	24.134	ug/L	0.517	2	7	2546	0	KED
	Se	78	71.939	ug/L	1.595	2	7	744	2	KED
	Y	89		ug/L			596586	609612	3	Standard
	Kr	83		ug/L			40	94	11	Standard
>	In-1	115		ug/L			9473	8387	1	KED
	Cd	111	22.179	ug/L	0.657	2	2	2935	1	KED
	Cd	114	22.198	ug/L	0.594	2	3	7306	1	KED
>	In	115		ug/L			934250	883491	4	Standard
	Ag	107	22.493	ug/L	0.953	4	53	316142	1	Standard
	Sb	121	0.188	ug/L	0.009	4	226	2308	4	Standard
	Sb	123	0.191	ug/L	0.011	5	166	1789	2	Standard
	Ba	135	27.649	ug/L	1.371	4	32	98661	0	Standard
	Ba	137	27.584	ug/L	1.113	4	55	171254	1	Standard
>	Tb	159		ug/L			1418865	1412096	3	Standard
	Tl	205	22.265	ug/L	1.082	4	130	719372	1	Standard
	Pb	208	22.316	ug/L	1.117	5	179	935589	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0328-07
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, June 02, 2022 19:56:31
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1055017	1	Standard
	Be	9	0.001	ug/L	0.001	93	12	23	36	Standard
	C	13		ug/L			19975	40984	2	Standard
	Cl	37		ug/L			4527886	5218440	1	Standard
>	Sc	45		ug/L			1043673	1151061	2	Standard
	V	51	0.543	ug/L	0.005	0	5872	18364	1	Standard
	V-1	51	0.540	ug/L	0.007	1	112	12186	1	Standard
	Cr	52	0.448	ug/L	0.011	2	17301	27519	2	Standard
	Cr	53	0.446	ug/L	0.002	0	113	1134	2	Standard
>	Ge	72		ug/L			32454	34775	4	KED
	Ni	60	0.590	ug/L	0.056	9	11	448	4	KED
	Ni	62	0.655	ug/L	0.015	2	3	85	4	KED
	Cu	63	7.754	ug/L	0.441	5	24	17510	1	KED
	Cu	65	7.832	ug/L	0.650	8	19	8612	4	KED
	Zn	66	132.762	ug/L	8.339	6	32	33055	1	KED
	Zn	67	119.314	ug/L	4.051	3	5	5030	1	KED
	As	75	0.351	ug/L	0.012	3	7	51	3	KED
	Se	78	0.015	ug/L	0.212	1373	7	8	24	KED
	Y	89		ug/L			596586	648793	2	Standard
	Kr	83		ug/L			40	67	9	Standard
>	In-1	115		ug/L			9473	10016	1	KED
	Cd	111	1.526	ug/L	0.024	1	2	243	1	KED
	Cd	114	1.526	ug/L	0.037	2	3	603	1	KED
>	In	115		ug/L			934250	1016155	1	Standard
	Ag	107	0.005	ug/L	0.001	17	53	136	9	Standard
	Sb	121	0.140	ug/L	0.007	5	226	2044	3	Standard
	Sb	123	0.141	ug/L	0.001	0	166	1566	0	Standard
	Ba	135	10.593	ug/L	0.180	1	32	43558	2	Standard
	Ba	137	10.800	ug/L	0.143	1	55	77240	1	Standard
>	Tb	159		ug/L			1418865	1560432	2	Standard
	Tl	205	0.001	ug/L	0.001	75	130	177	12	Standard
	Pb	208	1.361	ug/L	0.027	1	179	63319	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 20:01:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			912236	1042934	2	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.001	180	12	12	32	Standard
	C	**13**		ug/L			19975	24272	0	Standard
	Cl	**37**		ug/L			4527886	5164417	0	Standard
⌈>	**Sc**	**45**		ug/L			1043673	1134963	3	Standard
|	**V**	**51**	**0.002**	ug/L	0.004	281	5872	6418	2	Standard
|	**V-1**	**51**	**0.002**	ug/L	0.001	35	112	174	9	Standard
|	**Cr**	**52**	**0.022**	ug/L	0.014	61	17301	19217	2	Standard
⌊	**Cr**	**53**	**0.023**	ug/L	0.002	7	113	174	2	Standard
⌈>	**Ge**	**72**		ug/L			32454	34239	1	KED
|	**Ni**	**60**	**0.021**	ug/L	0.006	28	11	27	17	KED
|	**Ni**	**62**	**0.056**	ug/L	0.037	66	3	10	43	KED
|	**Cu**	**63**	**0.220**	ug/L	0.020	8	24	514	9	KED
|	**Cu**	**65**	**0.241**	ug/L	0.025	10	19	281	9	KED
|	**Zn**	**66**	**0.641**	ug/L	0.092	14	32	191	13	KED
|	**Zn**	**67**	**0.621**	ug/L	0.082	13	5	31	9	KED
|	**As**	**75**	**-0.005**	ug/L	0.006	125	7	6	10	KED
⌊	**Se**	**78**	**0.074**	ug/L	0.152	204	7	9	18	KED
	Y	**89**		ug/L			596586	623959	1	Standard
	Kr	**83**		ug/L			40	51	23	Standard
⌈>	**In-1**	**115**		ug/L			9473	9869	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.007	247	2	2	49	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.007	319	3	2	97	KED
⌈>	**In**	**115**		ug/L			934250	997302	0	Standard
|	**Ag**	**107**	**-0.000**	ug/L	0.000	319	53	55	13	Standard
|	**Sb**	**121**	**-0.015**	ug/L	0.001	4	226	53	17	Standard
|	**Sb**	**123**	**-0.013**	ug/L	0.000	2	166	57	4	Standard
|	**Ba**	**135**	**0.050**	ug/L	0.005	10	32	234	8	Standard
⌊	**Ba**	**137**	**0.046**	ug/L	0.003	5	55	384	4	Standard
⌈>	**Tb**	**159**		ug/L			1418865	1525780	2	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	141	130	128	12	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.000	1	179	720	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 20:06:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1023470	1	Standard
	Be	9	48.627	ug/L	0.659	1	12	279747	0	Standard
	C	13		ug/L			19975	21500	5	Standard
	Cl	37		ug/L			4527886	4977923	1	Standard
>	Sc	45		ug/L			1043673	1129507	2	Standard
	V	51	50.184	ug/L	1.131	2	5872	1085198	0	Standard
	V-1	51	50.044	ug/L	0.849	1	112	1096504	1	Standard
	Cr	52	48.878	ug/L	1.257	2	17301	922570	0	Standard
	Cr	53	48.514	ug/L	0.216	0	113	107865	2	Standard
>	Ge	72		ug/L			32454	34005	3	KED
	Ni	60	47.658	ug/L	2.482	5	11	34503	1	KED
	Ni	62	45.919	ug/L	2.253	4	3	5594	2	KED
	Cu	63	47.661	ug/L	1.129	2	24	105256	0	KED
	Cu	65	48.725	ug/L	0.563	1	19	52402	2	KED
	Zn	66	48.133	ug/L	2.754	5	32	11749	2	KED
	Zn	67	48.839	ug/L	1.543	3	5	2019	5	KED
	As	75	49.196	ug/L	1.658	3	7	6005	1	KED
	Se	78	51.100	ug/L	0.753	1	7	614	1	KED
	Y	89		ug/L			596586	630542	0	Standard
	Kr	83		ug/L			40	52	5	Standard
>	In-1	115		ug/L			9473	9710	0	KED
	Cd	111	48.885	ug/L	0.261	0	2	7488	0	KED
	Cd	114	49.330	ug/L	0.409	0	3	18798	1	KED
>	In	115		ug/L			934250	974381	0	Standard
	Ag	107	47.697	ug/L	0.829	1	53	740060	1	Standard
	Sb	121	49.968	ug/L	0.292	0	226	615459	0	Standard
	Sb	123	49.930	ug/L	0.430	0	166	470566	0	Standard
	Ba	135	50.492	ug/L	0.635	1	32	198943	0	Standard
	Ba	137	50.247	ug/L	0.441	0	55	344368	1	Standard
>	Tb	159		ug/L			1418865	1539509	1	Standard
	Tl	205	44.825	ug/L	1.180	2	130	1580197	0	Standard
	Pb	208	46.330	ug/L	1.592	3	179	2119247	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 20:13:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			912236	1004859	2	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	54	12	6	62	Standard
	C	**13**		ug/L			19975	21797	0	Standard
	Cl	**37**		ug/L			4527886	5138409	0	Standard
⌈>	**Sc**	**45**		ug/L			1043673	1103485	0	Standard
⌈	**V**	**51**	**-0.006**	ug/L	0.003	56	5872	6084	1	Standard
⌈	**V-1**	**51**	**0.000**	ug/L	0.000	137	112	125	8	Standard
⌈	**Cr**	**52**	**-0.017**	ug/L	0.015	90	17301	17989	1	Standard
⌊	**Cr**	**53**	**0.004**	ug/L	0.005	127	113	127	8	Standard
⌈>	**Ge**	**72**		ug/L			32454	34116	0	KED
⌈	**Ni**	**60**	**-0.004**	ug/L	0.006	129	11	8	44	KED
⌈	**Ni**	**62**	**0.045**	ug/L	0.018	40	3	8	24	KED
⌈	**Cu**	**63**	**0.009**	ug/L	0.003	36	24	44	16	KED
⌈	**Cu**	**65**	**0.000**	ug/L	0.003	984	19	20	14	KED
⌈	**Zn**	**66**	**-0.048**	ug/L	0.024	50	32	22	26	KED
⌈	**Zn**	**67**	**-0.083**	ug/L	0.046	55	5	1	100	KED
⌈	**As**	**75**	**0.007**	ug/L	0.025	342	7	8	36	KED
⌊	**Se**	**78**	**-0.045**	ug/L	0.215	478	7	7	33	KED
	Y	**89**		ug/L			596586	615496	4	Standard
	Kr	**83**		ug/L			40	50	9	Standard
⌈>	**In-1**	**115**		ug/L			9473	9980	3	KED
⌈	**Cd**	**111**	**-0.005**	ug/L	0.011	216	2	1	86	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.006	151	3	2	88	KED
⌈>	**In**	**115**		ug/L			934250	981700	2	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.002	110	53	79	30	Standard
⌈	**Sb**	**121**	**0.025**	ug/L	0.002	9	226	542	4	Standard
⌈	**Sb**	**123**	**0.025**	ug/L	0.004	17	166	408	10	Standard
⌈	**Ba**	**135**	**-0.003**	ug/L	0.002	50	32	20	32	Standard
⌊	**Ba**	**137**	**-0.003**	ug/L	0.001	33	55	40	12	Standard
⌈>	**Tb**	**159**		ug/L			1418865	1483076	2	Standard
⌈	**Tl**	**205**	**0.002**	ug/L	0.000	21	130	195	5	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	32	179	151	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0328-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 20:18:51
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			912236	1047712	1	Standard
	Be	**9**	**-0.000**	ug/L	0.001	756	12	13	34	Standard
	C	**13**		ug/L			19975	40667	3	Standard
	Cl	**37**		ug/L			4527886	5124627	1	Standard
>	**Sc**	**45**		ug/L			1043673	1144195	3	Standard
	V	**51**	**0.213**	ug/L	0.011	5	5872	11062	0	Standard
	V-1	**51**	**0.225**	ug/L	0.005	2	112	5111	1	Standard
	Cr	**52**	**0.511**	ug/L	0.035	6	17301	28536	1	Standard
	Cr	**53**	**0.532**	ug/L	0.010	1	113	1321	1	Standard
>	**Ge**	**72**		ug/L			32454	32834	9	KED
	Ni	**60**	**0.553**	ug/L	0.036	6	11	396	3	KED
	Ni	**62**	**0.683**	ug/L	0.153	22	3	82	13	KED
	Cu	**63**	**11.693**	ug/L	1.328	11	24	24798	2	KED
	Cu	**65**	**12.127**	ug/L	1.299	10	19	12528	1	KED
	Zn	**66**	**110.801**	ug/L	5.220	4	32	26031	4	KED
	Zn	**67**	**101.059**	ug/L	7.877	7	5	4009	2	KED
	As	**75**	**0.120**	ug/L	0.028	22	7	21	23	KED
	Se	**78**	**-0.041**	ug/L	0.215	517	7	7	31	KED
	Y	**89**		ug/L			596586	628240	1	Standard
	Kr	**83**		ug/L			40	37	10	Standard
>	**In-1**	**115**		ug/L			9473	9917	2	KED
	Cd	**111**	**0.050**	ug/L	0.002	3	2	10	0	KED
	Cd	**114**	**0.034**	ug/L	0.026	76	3	17	57	KED
>	**In**	**115**		ug/L			934250	970244	2	Standard
	Ag	**107**	**0.001**	ug/L	0.001	63	53	78	20	Standard
	Sb	**121**	**0.502**	ug/L	0.005	0	226	6384	2	Standard
	Sb	**123**	**0.491**	ug/L	0.008	1	166	4774	2	Standard
	Ba	**135**	**5.145**	ug/L	0.105	2	32	20211	0	Standard
	Ba	**137**	**5.090**	ug/L	0.109	2	55	34780	0	Standard
>	**Tb**	**159**		ug/L			1418865	1509894	1	Standard
	Tl	**205**	**0.001**	ug/L	0.000	63	130	163	10	Standard
	Pb	**208**	**0.161**	ug/L	0.007	4	179	7396	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0328-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 20:23:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			912236	1020070	5	Standard
	Be	**9**	**0.001**	ug/L	0.002	233	12	19	60	Standard
	C	**13**		ug/L			19975	75652	2	Standard
	Cl	**37**		ug/L			4527886	5420195	0	Standard
>	**Sc**	**45**		ug/L			1043673	1130665	1	Standard
	V	**51**	**0.448**	ug/L	0.008	1	5872	16003	2	Standard
	V-1	**51**	**0.591**	ug/L	0.003	0	112	13086	1	Standard
	Cr	**52**	**0.635**	ug/L	0.007	1	17301	30500	1	Standard
	Cr	**53**	**1.076**	ug/L	0.021	1	113	2513	1	Standard
>	**Ge**	**72**		ug/L			32454	34181	0	KED
	Ni	**60**	**0.493**	ug/L	0.018	3	11	370	4	KED
	Ni	**62**	**0.611**	ug/L	0.129	21	3	78	19	KED
	Cu	**63**	**6.417**	ug/L	0.177	2	24	14271	2	KED
	Cu	**65**	**6.440**	ug/L	0.092	1	19	6980	1	KED
	Zn	**66**	**61.744**	ug/L	0.738	1	32	15158	1	KED
	Zn	**67**	**57.125**	ug/L	1.245	2	5	2372	1	KED
	As	**75**	**0.129**	ug/L	0.026	19	7	23	14	KED
	Se	**78**	**-0.062**	ug/L	0.086	137	7	7	13	KED
	Y	**89**		ug/L			596586	624792	1	Standard
	Kr	**83**		ug/L			40	44	19	Standard
>	**In-1**	**115**		ug/L			9473	9829	2	KED
	Cd	**111**	**0.063**	ug/L	0.018	28	2	12	20	KED
	Cd	**114**	**0.062**	ug/L	0.009	13	3	27	10	KED
>	**In**	**115**		ug/L			934250	966310	1	Standard
	Ag	**107**	**0.001**	ug/L	0.001	61	53	75	14	Standard
	Sb	**121**	**0.732**	ug/L	0.013	1	226	9173	2	Standard
	Sb	**123**	**0.748**	ug/L	0.016	2	166	7162	1	Standard
	Ba	**135**	**10.458**	ug/L	0.107	1	32	40894	2	Standard
	Ba	**137**	**10.511**	ug/L	0.151	1	55	71481	2	Standard
>	**Tb**	**159**		ug/L			1418865	1505284	2	Standard
	Tl	**205**	**0.006**	ug/L	0.000	6	130	337	2	Standard
	Pb	**208**	**0.154**	ug/L	0.006	3	179	7074	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0328-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 20:28:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			912236	1042176	4	Standard
	Be	**9**	**0.000**	ug/L	0.000	179	12	15	18	Standard
	C	**13**		ug/L			19975	45649	0	Standard
	Cl	**37**		ug/L			4527886	5082368	1	Standard
>	**Sc**	**45**		ug/L			1043673	1138983	1	Standard
	V	**51**	**0.385**	ug/L	0.018	4	5872	14748	1	Standard
	V-1	**51**	**0.417**	ug/L	0.011	2	112	9334	0	Standard
	Cr	**52**	**0.499**	ug/L	0.007	1	17301	28188	1	Standard
	Cr	**53**	**0.594**	ug/L	0.015	2	113	1453	3	Standard
>	**Ge**	**72**		ug/L			32454	33735	5	KED
	Ni	**60**	**0.451**	ug/L	0.041	8	11	335	4	KED
	Ni	**62**	**0.518**	ug/L	0.132	25	3	66	25	KED
	Cu	**63**	**3.667**	ug/L	0.168	4	24	8047	1	KED
	Cu	**65**	**3.670**	ug/L	0.120	3	19	3930	2	KED
	Zn	**66**	**33.650**	ug/L	0.938	2	32	8160	2	KED
	Zn	**67**	**30.993**	ug/L	1.046	3	5	1271	4	KED
	As	**75**	**0.382**	ug/L	0.035	9	7	53	11	KED
	Se	**78**	**0.064**	ug/L	0.148	230	7	9	23	KED
	Y	**89**		ug/L			596586	635101	2	Standard
	Kr	**83**		ug/L			40	37	12	Standard
>	**In-1**	**115**		ug/L			9473	9798	0	KED
	Cd	**111**	**0.030**	ug/L	0.013	43	2	7	27	KED
	Cd	**114**	**0.027**	ug/L	0.008	27	3	14	20	KED
>	**In**	**115**		ug/L			934250	980177	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	58	53	74	13	Standard
	Sb	**121**	**1.228**	ug/L	0.017	1	226	15442	0	Standard
	Sb	**123**	**1.203**	ug/L	0.005	0	166	11580	1	Standard
	Ba	**135**	**13.739**	ug/L	0.400	2	32	54470	1	Standard
	Ba	**137**	**13.743**	ug/L	0.117	0	55	94781	0	Standard
>	**Tb**	**159**		ug/L			1418865	1489459	1	Standard
	Tl	**205**	**0.002**	ug/L	0.001	27	130	210	9	Standard
	Pb	**208**	**0.177**	ug/L	0.003	1	179	8039	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0328-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 20:33:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	984959	8	Standard
	Be	9	0.000	ug/L	0.001	448	12	15	59	Standard
	C	13		ug/L			19975	120304	1	Standard
	Cl	37		ug/L			4527886	5733723	1	Standard
>	Sc	45		ug/L			1043673	1106499	6	Standard
	V	51	0.445	ug/L	0.038	8	5872	15569	2	Standard
	V-1	51	0.936	ug/L	0.047	5	112	20184	2	Standard
	Cr	52	0.637	ug/L	0.077	12	17301	29828	2	Standard
	Cr	53	2.176	ug/L	0.104	4	113	4846	2	Standard
>	Ge	72		ug/L			32454	34244	0	KED
	Ni	60	0.412	ug/L	0.032	7	11	313	7	KED
	Ni	62	0.454	ug/L	0.090	19	3	59	17	KED
	Cu	63	3.250	ug/L	0.106	3	24	7257	4	KED
	Cu	65	3.338	ug/L	0.009	0	19	3634	1	KED
	Zn	66	22.731	ug/L	0.763	3	32	5612	3	KED
	Zn	67	20.877	ug/L	1.376	6	5	872	7	KED
	As	75	0.487	ug/L	0.039	8	7	67	6	KED
	Se	78	-0.047	ug/L	0.167	358	7	7	24	KED
	Y	89		ug/L			596586	607133	7	Standard
	Kr	83		ug/L			40	50	5	Standard
>	In-1	115		ug/L			9473	9982	0	KED
	Cd	111	0.005	ug/L	0.004	68	2	3	15	KED
	Cd	114	0.006	ug/L	0.003	46	3	6	17	KED
>	In	115		ug/L			934250	947523	7	Standard
	Ag	107	0.001	ug/L	0.000	36	53	69	4	Standard
	Sb	121	0.706	ug/L	0.059	8	226	8644	1	Standard
	Sb	123	0.701	ug/L	0.059	8	166	6561	0	Standard
	Ba	135	9.628	ug/L	0.678	7	32	36790	0	Standard
	Ba	137	9.524	ug/L	0.859	9	55	63239	1	Standard
>	Tb	159		ug/L			1418865	1455440	7	Standard
	Tl	205	0.008	ug/L	0.001	9	130	394	2	Standard
	Pb	208	0.110	ug/L	0.012	11	179	4895	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0328-05
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 20:38:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1038978	1	Standard
	Be	9	0.007	ug/L	0.001	21	12	55	15	Standard
	C	13		ug/L			19975	90936	3	Standard
	Cl	37		ug/L			4527886	5371109	1	Standard
>	Sc	45		ug/L			1043673	1130735	2	Standard
	V	51	1.131	ug/L	0.013	1	5872	30714	1	Standard
	V-1	51	1.307	ug/L	0.021	1	112	28797	0	Standard
	Cr	52	1.274	ug/L	0.011	0	17301	42335	2	Standard
	Cr	53	1.821	ug/L	0.023	1	113	4170	1	Standard
>	Ge	72		ug/L			32454	34573	2	KED
	Ni	60	0.470	ug/L	0.017	3	11	358	1	KED
	Ni	62	0.597	ug/L	0.071	11	3	77	13	KED
	Cu	63	5.372	ug/L	0.149	2	24	12085	0	KED
	Cu	65	5.501	ug/L	0.168	3	19	6031	1	KED
	Zn	66	49.796	ug/L	0.426	0	32	12373	2	KED
	Zn	67	45.543	ug/L	0.635	1	5	1914	2	KED
	As	75	0.155	ug/L	0.041	26	7	26	17	KED
	Se	78	-0.055	ug/L	0.095	175	7	7	12	KED
	Y	89		ug/L			596586	639475	2	Standard
	Kr	83		ug/L			40	40	25	Standard
>	In-1	115		ug/L			9473	9850	2	KED
	Cd	111	0.045	ug/L	0.012	26	2	9	17	KED
	Cd	114	0.042	ug/L	0.015	34	3	20	30	KED
>	In	115		ug/L			934250	968492	1	Standard
	Ag	107	0.002	ug/L	0.001	38	53	86	12	Standard
	Sb	121	0.321	ug/L	0.009	2	226	4170	3	Standard
	Sb	123	0.325	ug/L	0.006	1	166	3214	0	Standard
	Ba	135	6.429	ug/L	0.113	1	32	25203	0	Standard
	Ba	137	6.550	ug/L	0.051	0	55	44666	0	Standard
>	Tb	159		ug/L			1418865	1489871	1	Standard
	Tl	205	0.006	ug/L	0.001	24	130	343	14	Standard
	Pb	208	0.197	ug/L	0.007	3	179	8925	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0328-06
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 20:43:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1018953	1	Standard
	Be	9	-0.000	ug/L	0.000	164	12	12	17	Standard
	C	13		ug/L			19975	49276	0	Standard
	Cl	37		ug/L			4527886	4889175	2	Standard
>	Sc	45		ug/L			1043673	1127949	1	Standard
	V	51	0.510	ug/L	0.008	1	5872	17304	2	Standard
	V-1	51	0.517	ug/L	0.005	1	112	11437	1	Standard
	Cr	52	0.549	ug/L	0.013	2	17301	28838	2	Standard
	Cr	53	0.569	ug/L	0.027	4	113	1382	3	Standard
>	Ge	72		ug/L			32454	33830	2	KED
	Ni	60	0.931	ug/L	0.071	7	11	682	5	KED
	Ni	62	1.343	ug/L	0.157	11	3	166	13	KED
	Cu	63	110.104	ug/L	1.208	1	24	241947	1	KED
	Cu	65	114.531	ug/L	1.212	1	19	122547	3	KED
	Zn	66	154.808	ug/L	4.519	2	32	37550	1	KED
	Zn	67	139.436	ug/L	6.578	4	5	5719	2	KED
	As	75	0.113	ug/L	0.013	11	7	21	7	KED
	Se	78	0.010	ug/L	0.088	874	7	8	14	KED
	Y	89		ug/L			596586	625389	1	Standard
	Kr	83		ug/L			40	39	19	Standard
>	In-1	115		ug/L			9473	9978	0	KED
	Cd	111	0.042	ug/L	0.031	74	2	9	52	KED
	Cd	114	0.030	ug/L	0.007	22	3	15	17	KED
>	In	115		ug/L			934250	963239	1	Standard
	Ag	107	0.005	ug/L	0.000	2	53	136	2	Standard
	Sb	121	0.145	ug/L	0.006	4	226	2001	3	Standard
	Sb	123	0.150	ug/L	0.007	4	166	1571	2	Standard
	Ba	135	3.935	ug/L	0.046	1	32	15357	1	Standard
	Ba	137	3.893	ug/L	0.090	2	55	26423	0	Standard
>	Tb	159		ug/L			1418865	1501451	0	Standard
	Tl	205	0.001	ug/L	0.000	33	130	158	4	Standard
	Pb	208	1.368	ug/L	0.013	0	179	61221	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0328-08
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 20:48:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			912236	1034979	1	Standard
	Be	**9**	**0.005**	ug/L	0.002	35	12	44	25	Standard
	C	**13**		ug/L			19975	43542	2	Standard
	Cl	**37**		ug/L			4527886	4967034	0	Standard
>	**Sc**	**45**		ug/L			1043673	1106188	2	Standard
	V	**51**	**1.626**	ug/L	0.025	1	5872	40465	1	Standard
	V-1	**51**	**1.604**	ug/L	0.033	2	112	34542	1	Standard
	Cr	**52**	**0.586**	ug/L	0.020	3	17301	28948	1	Standard
	Cr	**53**	**0.579**	ug/L	0.041	7	113	1376	4	Standard
>	**Ge**	**72**		ug/L			32454	33632	1	KED
	Ni	**60**	**0.485**	ug/L	0.036	7	11	360	8	KED
	Ni	**62**	**0.452**	ug/L	0.040	8	3	57	8	KED
	Cu	**63**	**3.206**	ug/L	0.135	4	24	7027	3	KED
	Cu	**65**	**3.269**	ug/L	0.096	2	19	3495	2	KED
	Zn	**66**	**42.996**	ug/L	0.711	1	32	10394	0	KED
	Zn	**67**	**38.820**	ug/L	0.621	1	5	1588	2	KED
	As	**75**	**0.168**	ug/L	0.031	18	7	27	11	KED
	Se	**78**	**-0.079**	ug/L	0.118	150	7	7	18	KED
	Y	**89**		ug/L			596586	627698	2	Standard
	Kr	**83**		ug/L			40	41	28	Standard
>	**In-1**	**115**		ug/L			9473	9829	0	KED
	Cd	**111**	**0.040**	ug/L	0.023	58	2	8	40	KED
	Cd	**114**	**0.015**	ug/L	0.010	68	3	9	41	KED
>	**In**	**115**		ug/L			934250	959071	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	53	53	73	13	Standard
	Sb	**121**	**0.119**	ug/L	0.009	7	226	1676	5	Standard
	Sb	**123**	**0.120**	ug/L	0.007	5	166	1285	4	Standard
	Ba	**135**	**10.788**	ug/L	0.141	1	32	41861	0	Standard
	Ba	**137**	**10.746**	ug/L	0.060	0	55	72535	0	Standard
>	**Tb**	**159**		ug/L			1418865	1467307	0	Standard
	Tl	**205**	**0.000**	ug/L	0.001	1538	130	137	28	Standard
	Pb	**208**	**0.803**	ug/L	0.002	0	179	35205	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0328-09
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 20:53:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			912236	1014793	2	Standard
	Be	**9**	**0.001**	ug/L	0.001	55	12	19	14	Standard
	C	**13**		ug/L			19975	45634	1	Standard
	Cl	**37**		ug/L			4527886	4902867	0	Standard
>	**Sc**	**45**		ug/L			1043673	1141002	1	Standard
	V	**51**	**0.386**	ug/L	0.008	2	5872	14800	2	Standard
	V-1	**51**	**0.403**	ug/L	0.008	2	112	9046	1	Standard
	Cr	**52**	**0.536**	ug/L	0.020	3	17301	28935	0	Standard
	Cr	**53**	**0.582**	ug/L	0.055	9	113	1429	7	Standard
>	**Ge**	**72**		ug/L			32454	33823	2	KED
	Ni	**60**	**1.969**	ug/L	0.085	4	11	1431	6	KED
	Ni	**62**	**1.978**	ug/L	0.071	3	3	243	4	KED
	Cu	**63**	**2.321**	ug/L	0.041	1	24	5123	0	KED
	Cu	**65**	**2.334**	ug/L	0.051	2	19	2517	4	KED
	Zn	**66**	**36.755**	ug/L	0.602	1	32	8942	2	KED
	Zn	**67**	**33.743**	ug/L	2.343	6	5	1387	4	KED
	As	**75**	**0.304**	ug/L	0.026	8	7	44	4	KED
	Se	**78**	**-0.016**	ug/L	0.210	1290	7	8	32	KED
	Y	**89**		ug/L			596586	623946	2	Standard
	Kr	**83**		ug/L			40	48	2	Standard
>	**In-1**	**115**		ug/L			9473	9653	1	KED
	Cd	**111**	**0.012**	ug/L	0.013	104	2	4	44	KED
	Cd	**114**	**0.019**	ug/L	0.020	105	3	10	69	KED
>	**In**	**115**		ug/L			934250	965131	0	Standard
	Ag	**107**	**0.003**	ug/L	0.001	34	53	100	15	Standard
	Sb	**121**	**0.053**	ug/L	0.007	12	226	885	9	Standard
	Sb	**123**	**0.054**	ug/L	0.006	11	166	672	8	Standard
	Ba	**135**	**6.117**	ug/L	0.122	1	32	23902	1	Standard
	Ba	**137**	**6.098**	ug/L	0.075	1	55	41444	0	Standard
>	**Tb**	**159**		ug/L			1418865	1486657	1	Standard
	Tl	**205**	**-0.000**	ug/L	0.001	1104	130	135	12	Standard
	Pb	**208**	**0.351**	ug/L	0.015	4	179	15710	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0328-10
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 20:57:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1006376	1	Standard
	Be	9	0.001	ug/L	0.001	83	12	21	30	Standard
	C	13		ug/L			19975	45816	1	Standard
	Cl	37		ug/L			4527886	4952120	2	Standard
>	Sc	45		ug/L			1043673	1134719	2	Standard
	V	51	0.607	ug/L	0.022	3	5872	19484	0	Standard
	V-1	51	0.599	ug/L	0.012	2	112	13299	0	Standard
	Cr	52	0.434	ug/L	0.068	15	17301	26863	3	Standard
	Cr	53	0.419	ug/L	0.034	8	113	1057	5	Standard
>	Ge	72		ug/L			32454	33934	1	KED
	Ni	60	0.967	ug/L	0.061	6	11	711	7	KED
	Ni	62	0.932	ug/L	0.157	16	3	116	17	KED
	Cu	63	3.340	ug/L	0.016	0	24	7387	1	KED
	Cu	65	3.355	ug/L	0.014	0	19	3619	0	KED
	Zn	66	22.950	ug/L	0.088	0	32	5615	0	KED
	Zn	67	20.615	ug/L	0.343	1	5	853	1	KED
	As	75	0.200	ug/L	0.070	34	7	31	25	KED
	Se	78	0.005	ug/L	0.245	5224	7	8	35	KED
	Y	89		ug/L			596586	621887	1	Standard
	Kr	83		ug/L			40	26	7	Standard
>	In-1	115		ug/L			9473	9670	0	KED
	Cd	111	0.031	ug/L	0.004	12	2	7	7	KED
	Cd	114	0.045	ug/L	0.010	23	3	20	18	KED
>	In	115		ug/L			934250	960534	0	Standard
	Ag	107	0.001	ug/L	0.001	53	53	73	12	Standard
	Sb	121	0.200	ug/L	0.006	2	226	2660	3	Standard
	Sb	123	0.208	ug/L	0.005	2	166	2100	1	Standard
	Ba	135	4.942	ug/L	0.049	0	32	19224	0	Standard
	Ba	137	4.969	ug/L	0.064	1	55	33621	1	Standard
>	Tb	159		ug/L			1418865	1476152	1	Standard
	Tl	205	-0.000	ug/L	0.000	85	130	130	3	Standard
	Pb	208	0.047	ug/L	0.003	6	179	2262	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 21:02:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			912236	975399	5	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.001	269	12	11	44	Standard
	C	**13**		ug/L			19975	23206	0	Standard
	Cl	**37**		ug/L			4527886	4866857	3	Standard
⌈>	**Sc**	**45**		ug/L			1043673	1092753	4	Standard
⌈	**V**	**51**	**0.003**	ug/L	0.013	489	5872	6197	2	Standard
⌈	**V-1**	**51**	**0.004**	ug/L	0.001	21	112	193	4	Standard
⌈	**Cr**	**52**	**0.021**	ug/L	0.039	185	17301	18475	2	Standard
⌊	**Cr**	**53**	**0.023**	ug/L	0.006	26	113	167	6	Standard
⌈>	**Ge**	**72**		ug/L			32454	32521	0	KED
⌈	**Ni**	**60**	**0.028**	ug/L	0.009	30	11	31	19	KED
⌈	**Ni**	**62**	**0.055**	ug/L	0.033	60	3	9	40	KED
⌈	**Cu**	**63**	**0.211**	ug/L	0.011	5	24	469	5	KED
⌈	**Cu**	**65**	**0.244**	ug/L	0.021	8	19	269	7	KED
⌈	**Zn**	**66**	**0.675**	ug/L	0.123	18	32	189	15	KED
⌈	**Zn**	**67**	**0.789**	ug/L	0.079	10	5	36	9	KED
⌈	**As**	**75**	**-0.008**	ug/L	0.007	90	7	6	13	KED
⌊	**Se**	**78**	**0.089**	ug/L	0.185	209	7	8	23	KED
	Y	**89**		ug/L			596586	588270	3	Standard
	Kr	**83**		ug/L			40	29	3	Standard
⌈>	**In-1**	**115**		ug/L			9473	9429	1	KED
⌈	**Cd**	**111**	**0.007**	ug/L	0.010	153	2	3	41	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.005	99	3	1	103	KED
⌈>	**In**	**115**		ug/L			934250	930328	2	Standard
⌈	**Ag**	**107**	**0.000**	ug/L	0.001	505	53	55	12	Standard
⌈	**Sb**	**121**	**-0.014**	ug/L	0.000	0	226	57	3	Standard
⌈	**Sb**	**123**	**-0.013**	ug/L	0.001	9	166	45	25	Standard
⌈	**Ba**	**135**	**0.050**	ug/L	0.005	10	32	222	11	Standard
⌊	**Ba**	**137**	**0.047**	ug/L	0.006	12	55	358	8	Standard
⌈>	**Tb**	**159**		ug/L			1418865	1413308	3	Standard
⌈	**Tl**	**205**	**-0.002**	ug/L	0.000	18	130	69	12	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.001	7	179	638	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 21:07:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			912236	1008742	3	Standard
⌊	Be	9	48.684	ug/L	1.386	2	12	275956	2	Standard
	C	13		ug/L			19975	22093	1	Standard
	Cl	37		ug/L			4527886	4992399	0	Standard
⌈>	Sc	45		ug/L			1043673	1103528	1	Standard
|	V	51	50.257	ug/L	1.123	2	5872	1062192	2	Standard
|	V-1	51	49.938	ug/L	0.921	1	112	1069352	2	Standard
|	Cr	52	49.380	ug/L	1.340	2	17301	910776	3	Standard
⌊	Cr	53	48.424	ug/L	0.783	1	113	105207	2	Standard
⌈>	Ge	72		ug/L			32454	32742	1	KED
|	Ni	60	47.391	ug/L	0.209	0	11	33071	1	KED
|	Ni	62	45.774	ug/L	0.259	0	3	5374	1	KED
|	Cu	63	47.024	ug/L	0.376	0	24	100047	1	KED
|	Cu	65	48.323	ug/L	0.486	1	19	50046	1	KED
|	Zn	66	48.168	ug/L	1.151	2	32	11332	1	KED
|	Zn	67	48.457	ug/L	0.651	1	5	1928	0	KED
|	As	75	49.767	ug/L	0.079	0	7	5852	1	KED
⌊	Se	78	48.371	ug/L	0.875	1	7	560	2	KED
	Y	89		ug/L			596586	615094	0	Standard
	Kr	83		ug/L			40	39	23	Standard
⌈>	In-1	115		ug/L			9473	9713	1	KED
|	Cd	111	47.228	ug/L	0.607	1	2	7237	2	KED
⌊	Cd	114	47.672	ug/L	0.624	1	3	18168	1	KED
⌈>	In	115		ug/L			934250	928062	1	Standard
|	Ag	107	48.288	ug/L	0.744	1	53	713632	1	Standard
|	Sb	121	49.109	ug/L	0.498	1	226	576076	0	Standard
|	Sb	123	49.262	ug/L	0.127	0	166	442207	1	Standard
|	Ba	135	50.311	ug/L	0.390	0	32	188805	1	Standard
⌊	Ba	137	50.612	ug/L	0.571	1	55	330343	0	Standard
⌈>	Tb	159		ug/L			1418865	1463613	1	Standard
|	Tl	205	44.171	ug/L	0.466	1	130	1480905	1	Standard
⌊	Pb	208	45.441	ug/L	0.848	1	179	1976712	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 21:15:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			912236	1003813	4	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	119	12	7	90	Standard
	C	**13**		ug/L			19975	20835	4	Standard
	Cl	**37**		ug/L			4527886	4930984	1	Standard
⌈>	**Sc**	**45**		ug/L			1043673	1094033	1	Standard
⌈	**V**	**51**	**-0.009**	ug/L	0.002	26	5872	5958	1	Standard
⌈	**V-1**	**51**	**0.001**	ug/L	0.001	100	112	133	12	Standard
⌈	**Cr**	**52**	**-0.029**	ug/L	0.015	50	17301	17616	1	Standard
⌊	**Cr**	**53**	**0.004**	ug/L	0.008	175	113	127	11	Standard
⌈>	**Ge**	**72**		ug/L			32454	32464	1	KED
⌈	**Ni**	**60**	**-0.003**	ug/L	0.008	279	11	9	52	KED
⌈	**Ni**	**62**	**-0.011**	ug/L	0.016	149	3	1	100	KED
⌈	**Cu**	**63**	**0.003**	ug/L	0.004	111	24	31	25	KED
⌈	**Cu**	**65**	**0.004**	ug/L	0.004	83	19	23	16	KED
⌈	**Zn**	**66**	**-0.027**	ug/L	0.022	80	32	26	18	KED
⌈	**Zn**	**67**	**0.001**	ug/L	0.124	14599	5	5	94	KED
⌈	**As**	**75**	**0.001**	ug/L	0.007	506	7	7	9	KED
⌊	**Se**	**78**	**-0.108**	ug/L	0.260	241	7	6	42	KED
	Y	**89**		ug/L			596586	600139	1	Standard
	Kr	**83**		ug/L			40	41	27	Standard
⌈>	**In-1**	**115**		ug/L			9473	9451	1	KED
⌈	**Cd**	**111**	**0.000**	ug/L	0.007	153727	2	2	43	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.008	481	3	3	91	KED
⌈>	**In**	**115**		ug/L			934250	930251	1	Standard
⌈	**Ag**	**107**	**0.002**	ug/L	0.000	4	53	77	2	Standard
⌈	**Sb**	**121**	**0.023**	ug/L	0.003	10	226	499	5	Standard
⌈	**Sb**	**123**	**0.025**	ug/L	0.002	6	166	386	3	Standard
⌈	**Ba**	**135**	**-0.004**	ug/L	0.002	55	32	16	54	Standard
⌊	**Ba**	**137**	**-0.003**	ug/L	0.001	26	55	36	13	Standard
⌈>	**Tb**	**159**		ug/L			1418865	1410626	1	Standard
⌈	**Tl**	**205**	**0.000**	ug/L	0.001	194	130	140	14	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	27	179	150	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0021-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 21:20:19
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	992056	0	Standard
	Be	9	-0.001	ug/L	0.000	29	12	7	25	Standard
	C	13		ug/L			19975	29673	1	Standard
	Cl	37		ug/L			4527886	4900322	0	Standard
>	Sc	45		ug/L			1043673	1085469	2	Standard
	V	51	0.007	ug/L	0.005	74	5872	6248	1	Standard
	V-1	51	0.000	ug/L	0.000	24	112	124	1	Standard
	Cr	52	0.036	ug/L	0.027	75	17301	18629	0	Standard
	Cr	53	0.014	ug/L	0.011	76	113	146	12	Standard
>	Ge	72		ug/L			32454	32352	0	KED
	Ni	60	-0.011	ug/L	0.005	43	11	3	86	KED
	~~Ni~~	~~62~~	0.006	ug/L	0.016	295	3	3	50	KED
	Cu	63	0.009	ug/L	0.003	37	24	41	15	KED
	Cu	65	0.003	ug/L	0.005	185	19	21	22	KED
	Zn	66	-0.035	ug/L	0.021	58	32	24	19	KED
	Zn	67	-0.048	ug/L	0.028	58	5	3	34	KED
	As	75	-0.004	ug/L	0.011	273	7	6	18	KED
	Se	78	-0.149	ug/L	0.191	128	7	6	34	KED
	Y	89		ug/L			596586	600540	0	Standard
	Kr	83		ug/L			40	37	28	Standard
>	In-1	115		ug/L			9473	9184	4	KED
	Cd	111	0.003	ug/L	0.014	442	2	2	66	KED
	Cd	114	-0.005	ug/L	0.005	111	3	1	103	KED
>	In	115		ug/L			934250	935044	2	Standard
	Ag	107	-0.000	ug/L	0.001	1209	53	52	24	Standard
	Sb	121	-0.001	ug/L	0.003	286	226	216	14	Standard
	Sb	123	0.000	ug/L	0.001	156	166	170	1	Standard
	Ba	135	-0.003	ug/L	0.001	42	32	19	29	Standard
	Ba	137	-0.003	ug/L	0.001	19	55	37	7	Standard
>	Tb	159		ug/L			1418865	1421346	1	Standard
	Tl	205	-0.002	ug/L	0.000	11	130	66	10	Standard
	Pb	208	-0.001	ug/L	0.000	26	179	129	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0021-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 21:25:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	994222	1	Standard
	Be	9	22.402	ug/L	0.674	3	12	125204	2	Standard
	C	13		ug/L			19975	28024	1	Standard
	Cl	37		ug/L			4527886	4952596	1	Standard
>	Sc	45		ug/L			1043673	1092790	1	Standard
	V	51	23.667	ug/L	0.259	1	5872	498542	1	Standard
	V-1	51	23.505	ug/L	0.226	0	112	498421	0	Standard
	Cr	52	23.258	ug/L	0.507	2	17301	434377	2	Standard
	Cr	53	22.771	ug/L	0.256	1	113	49045	1	Standard
>	Ge	72		ug/L			32454	32294	0	KED
	Ni	60	22.219	ug/L	0.266	1	11	15300	1	KED
	~~Ni~~	~~62~~	20.976	ug/L	0.766	3	3	2431	4	KED
	Cu	63	22.561	ug/L	0.377	1	24	47355	2	KED
	Cu	65	23.430	ug/L	0.515	2	19	23947	2	KED
	Zn	66	70.985	ug/L	0.696	0	32	16461	1	KED
	Zn	67	64.331	ug/L	2.925	4	5	2523	4	KED
	As	75	22.655	ug/L	0.877	3	7	2631	3	KED
	Se	78	72.848	ug/L	0.873	1	7	828	0	KED
	Y	89		ug/L			596586	600651	3	Standard
	Kr	83		ug/L			40	33	18	Standard
>	In-1	115		ug/L			9473	9555	1	KED
	Cd	111	22.254	ug/L	0.189	0	2	3356	1	KED
	Cd	114	22.367	ug/L	0.251	1	3	8388	1	KED
>	In	115		ug/L			934250	942735	0	Standard
	Ag	107	22.400	ug/L	0.346	1	53	336333	2	Standard
	Sb	121	-0.008	ug/L	0.000	5	226	130	4	Standard
	Sb	123	-0.008	ug/L	0.001	15	166	90	12	Standard
	Ba	135	23.020	ug/L	0.283	1	32	87771	0	Standard
	Ba	137	23.301	ug/L	0.497	2	55	154534	2	Standard
>	Tb	159		ug/L			1418865	1443381	2	Standard
	Tl	205	21.634	ug/L	0.728	3	130	714964	1	Standard
	Pb	208	22.015	ug/L	0.899	4	179	944005	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0038-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 21:30:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1022664	2	Standard
	Be	9	-0.000	ug/L	0.000	58	12	11	16	Standard
	C	13		ug/L			19975	28557	2	Standard
	Cl	37		ug/L			4527886	5023923	1	Standard
>	Sc	45		ug/L			1043673	1081223	2	Standard
	V	51	0.003	ug/L	0.004	151	5872	6142	1	Standard
	V-1	51	-0.001	ug/L	0.000	88	112	105	11	Standard
	Cr	52	0.020	ug/L	0.019	94	17301	18271	1	Standard
	Cr	53	0.008	ug/L	0.002	31	113	133	2	Standard
>	Ge	72		ug/L			32454	32047	0	KED
	Ni	60	0.045	ug/L	0.005	10	11	41	7	KED
	~~Ni~~	~~62~~	0.077	ug/L	0.083	107	3	12	79	KED
	Cu	63	0.011	ug/L	0.004	40	24	45	19	KED
	Cu	65	0.005	ug/L	0.008	171	19	23	33	KED
	Zn	66	0.049	ug/L	0.028	58	32	43	15	KED
	Zn	67	0.149	ug/L	0.104	69	5	10	36	KED
	As	75	0.002	ug/L	0.025	1094	7	7	38	KED
	Se	78	-0.116	ug/L	0.155	133	7	6	25	KED
	Y	89		ug/L			596586	586026	1	Standard
	Kr	83		ug/L			40	31	15	Standard
>	In-1	115		ug/L			9473	9359	2	KED
	Cd	111	-0.004	ug/L	0.007	160	2	1	50	KED
	Cd	114	-0.005	ug/L	0.005	107	3	1	100	KED
>	In	115		ug/L			934250	918734	0	Standard
	Ag	107	0.001	ug/L	0.001	99	53	62	15	Standard
	Sb	121	-0.012	ug/L	0.000	4	226	87	5	Standard
	Sb	123	-0.012	ug/L	0.001	4	166	58	9	Standard
	Ba	135	-0.004	ug/L	0.002	58	32	18	41	Standard
	Ba	137	-0.004	ug/L	0.001	19	55	29	16	Standard
>	Tb	159		ug/L			1418865	1400648	1	Standard
	~~Tl~~	205	-0.001	ug/L	0.000	25	130	86	12	Standard
	Pb	208	0.000	ug/L	0.000	121	179	190	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0038-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 21:34:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	997655	3	Standard
	Be	9	26.256	ug/L	0.717	2	12	147249	3	Standard
	C	13		ug/L			19975	25707	3	Standard
	Cl	37		ug/L			4527886	4932771	0	Standard
>	Sc	45		ug/L			1043673	1104044	3	Standard
	V	51	27.100	ug/L	0.461	1	5872	575669	2	Standard
	V-1	51	26.991	ug/L	0.417	1	112	578057	2	Standard
	Cr	52	27.344	ug/L	0.662	2	17301	512460	1	Standard
	Cr	53	26.983	ug/L	0.504	1	113	58671	1	Standard
>	Ge	72		ug/L			32454	32277	2	KED
	Ni	60	25.671	ug/L	0.449	1	11	17663	2	KED
	~~Ni~~	~~62~~	24.829	ug/L	0.509	2	3	2875	3	KED
	Cu	63	26.189	ug/L	0.327	1	24	54928	1	KED
	Cu	65	27.104	ug/L	0.777	2	19	27669	0	KED
	Zn	66	80.006	ug/L	1.223	1	32	18537	2	KED
	Zn	67	74.729	ug/L	1.372	1	5	2928	1	KED
	As	75	25.829	ug/L	0.064	0	7	2997	2	KED
	Se	78	82.483	ug/L	2.198	2	7	937	4	KED
	Y	89		ug/L			596586	606962	2	Standard
	Kr	83		ug/L			40	49	7	Standard
>	In-1	115		ug/L			9473	9366	0	KED
	Cd	111	26.347	ug/L	0.702	2	2	3894	2	KED
	Cd	114	26.501	ug/L	0.475	1	3	9742	2	KED
>	In	115		ug/L			934250	935395	3	Standard
	Ag	107	27.180	ug/L	0.453	1	53	404814	2	Standard
	Sb	121	27.119	ug/L	0.293	1	226	320695	2	Standard
	Sb	123	27.174	ug/L	0.765	2	166	245797	0	Standard
	Ba	135	27.216	ug/L	0.661	2	32	102910	0	Standard
	Ba	137	27.170	ug/L	0.656	2	55	178696	1	Standard
>	Tb	159		ug/L			1418865	1439698	1	Standard
	~~Tl~~	205	24.769	ug/L	0.656	2	130	816655	1	Standard
	Pb	208	25.392	ug/L	0.383	1	179	1086576	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0303-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 21:39:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1052717	2	Standard
	Be	9	0.091	ug/L	0.009	10	12	551	7	Standard
	C	13		ug/L			19975	42318	0	Standard
	Cl	37		ug/L			4527886	4978849	1	Standard
>	Sc	45		ug/L			1043673	1145198	1	Standard
	V	51	15.187	ug/L	0.065	0	5872	337604	1	Standard
	V-1	51	15.123	ug/L	0.048	0	112	336134	1	Standard
	Cr	52	16.145	ug/L	0.170	1	17301	321770	0	Standard
	Cr	53	15.886	ug/L	0.310	1	113	35889	0	Standard
>	Ge	72		ug/L			32454	33503	0	KED
	Ni	60	12.144	ug/L	0.047	0	11	8680	0	KED
	Ni	62	12.034	ug/L	0.115	0	3	1448	0	KED
	Cu	63	71.018	ug/L	0.688	0	24	154590	1	KED
	Cu	65	72.192	ug/L	0.132	0	19	76498	0	KED
	Zn	66	80.258	ug/L	1.204	1	32	19302	1	KED
	Zn	67	75.028	ug/L	2.003	2	5	3052	2	KED
	As	75	7.679	ug/L	0.177	2	7	930	2	KED
	Se	78	0.428	ug/L	0.226	52	7	13	20	KED
	Y	89		ug/L			596586	695044	0	Standard
	Kr	83		ug/L			40	62	13	Standard
>	In-1	115		ug/L			9473	9500	0	KED
	Cd	111	0.134	ug/L	0.042	31	2	22	27	KED
	Cd	114	0.098	ug/L	0.034	34	3	40	31	KED
>	In	115		ug/L			934250	961688	0	Standard
	Ag	107	0.099	ug/L	0.005	4	53	1574	3	Standard
	Sb	121	0.355	ug/L	0.014	3	226	4540	2	Standard
	Sb	123	0.345	ug/L	0.004	1	166	3378	0	Standard
	Ba	135	23.320	ug/L	0.343	1	32	90699	0	Standard
	Ba	137	23.225	ug/L	0.501	2	55	157107	1	Standard
>	Tb	159		ug/L			1418865	1475577	2	Standard
	Tl	205	0.026	ug/L	0.001	5	130	1001	3	Standard
	Pb	208	36.070	ug/L	0.996	2	179	1581490	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0303-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 21:44:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	1032445	2	Standard
	Be	9	0.092	ug/L	0.007	7	12	549	6	Standard
	C	13		ug/L			19975	38655	1	Standard
	Cl	37		ug/L			4527886	4931756	1	Standard
>	Sc	45		ug/L			1043673	1152798	1	Standard
	V	51	16.051	ug/L	0.013	0	5872	358805	1	Standard
	V-1	51	16.023	ug/L	0.027	0	112	358508	1	Standard
	Cr	52	16.095	ug/L	0.128	0	17301	322987	0	Standard
	Cr	53	16.005	ug/L	0.087	0	113	36402	0	Standard
>	Ge	72		ug/L			32454	33334	2	KED
	Ni	60	13.089	ug/L	0.430	3	11	9303	1	KED
	Ni	62	12.855	ug/L	0.762	5	3	1537	3	KED
	Cu	63	82.000	ug/L	1.561	1	24	177543	0	KED
	Cu	65	84.513	ug/L	1.356	1	19	89080	0	KED
	Zn	66	96.591	ug/L	1.357	1	32	23106	2	KED
	Zn	67	91.021	ug/L	2.139	2	5	3683	2	KED
	As	75	6.714	ug/L	0.141	2	7	810	2	KED
	Se	78	0.566	ug/L	0.197	34	7	14	17	KED
	Y	89		ug/L			596586	700479	1	Standard
	Kr	83		ug/L			40	67	21	Standard
>	In-1	115		ug/L			9473	9523	2	KED
	Cd	111	0.161	ug/L	0.046	28	2	26	25	KED
	Cd	114	0.134	ug/L	0.070	52	3	54	50	KED
>	In	115		ug/L			934250	936666	2	Standard
	Ag	107	0.151	ug/L	0.004	2	53	2308	1	Standard
	Sb	121	0.110	ug/L	0.003	2	226	1526	3	Standard
	Sb	123	0.113	ug/L	0.001	0	166	1194	2	Standard
	Ba	135	21.968	ug/L	0.389	1	32	83206	0	Standard
	Ba	137	22.293	ug/L	0.603	2	55	146844	0	Standard
>	Tb	159		ug/L			1418865	1451954	1	Standard
	Tl	205	0.028	ug/L	0.001	3	130	1063	1	Standard
	Pb	208	43.296	ug/L	1.443	3	179	1868039	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0306-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, June 02, 2022 21:50:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	987655	3	Standard
	Be	9	0.003	ug/L	0.000	10	12	32	5	Standard
	C	13		ug/L			19975	36600	1	Standard
	Cl	37		ug/L			4527886	5278685	1	Standard
>	Sc	45		ug/L			1043673	1174647	1	Standard
	V	51	0.496	ug/L	0.020	4	5872	17688	1	Standard
	V-1	51	0.870	ug/L	0.018	2	112	19938	0	Standard
	Cr	52	0.294	ug/L	0.028	9	17301	25124	0	Standard
	Cr	53	1.486	ug/L	0.023	1	113	3558	0	Standard
>	Ge	72		ug/L			32454	31150	0	KED
	Ni	60	0.489	ug/L	0.060	12	11	335	11	KED
	Ni	62	0.575	ug/L	0.055	9	3	67	9	KED
	Cu	63	0.218	ug/L	0.017	7	24	464	6	KED
	Cu	65	0.211	ug/L	0.013	6	19	226	6	KED
	Zn	66	0.580	ug/L	0.030	5	32	160	4	KED
	Zn	67	0.576	ug/L	0.217	37	5	26	31	KED
	As	75	4.531	ug/L	0.068	1	7	513	1	KED
	Se	78	0.177	ug/L	0.141	79	7	9	15	KED
	Y	89		ug/L			596586	588298	3	Standard
	Kr	83		ug/L			40	51	9	Standard
>	In-1	115		ug/L			9473	8746	2	KED
	Cd	111	0.001	ug/L	0.014	1126	2	2	78	KED
	Cd	114	-0.001	ug/L	0.009	951	3	3	92	KED
>	In	115		ug/L			934250	879249	3	Standard
	Ag	107	0.000	ug/L	0.000	175	53	54	14	Standard
	Sb	121	0.002	ug/L	0.002	161	226	230	13	Standard
	Sb	123	0.001	ug/L	0.002	432	166	161	9	Standard
	Ba	135	0.612	ug/L	0.036	5	32	2202	2	Standard
	Ba	137	0.642	ug/L	0.042	6	55	4015	3	Standard
>	Tb	159		ug/L			1418865	1388431	2	Standard
	Tl	205	0.012	ug/L	0.000	2	130	525	4	Standard
	Pb	208	0.013	ug/L	0.001	8	179	726	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0022-DUP4
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, June 02, 2022 21:54:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	994777	3	Standard
	Be	9	0.005	ug/L	0.001	25	12	41	14	Standard
	C	13		ug/L			19975	35892	1	Standard
	Cl	37		ug/L			4527886	5240501	1	Standard
>	Sc	45		ug/L			1043673	1179811	1	Standard
	V	51	0.496	ug/L	0.006	1	5872	17785	1	Standard
	V-1	51	0.873	ug/L	0.013	1	112	20111	1	Standard
	Cr	52	0.301	ug/L	0.024	7	17301	25365	0	Standard
	Cr	53	1.501	ug/L	0.034	2	113	3610	1	Standard
>	Ge	72		ug/L			32454	31922	0	KED
	Ni	60	0.576	ug/L	0.052	8	11	402	7	KED
	Ni	62	0.578	ug/L	0.122	21	3	69	19	KED
	Cu	63	1.636	ug/L	0.027	1	24	3416	0	KED
	Cu	65	1.634	ug/L	0.032	1	19	1668	1	KED
	Zn	66	1.346	ug/L	0.031	2	32	339	2	KED
	Zn	67	1.479	ug/L	0.118	8	5	62	7	KED
	As	75	4.647	ug/L	0.022	0	7	539	0	KED
	Se	78	0.099	ug/L	0.141	142	7	8	18	KED
	Y	89		ug/L			596586	587871	1	Standard
	Kr	83		ug/L			40	41	34	Standard
>	In-1	115		ug/L			9473	8789	1	KED
	Cd	111	-0.008	ug/L	0.008	100	2	1	86	KED
	Cd	114	-0.003	ug/L	0.006	222	3	2	92	KED
>	In	115		ug/L			934250	894411	1	Standard
	Ag	107	0.002	ug/L	0.000	26	53	78	8	Standard
	Sb	121	0.000	ug/L	0.000	16	226	219	1	Standard
	Sb	123	0.002	ug/L	0.002	84	166	179	10	Standard
	Ba	135	0.628	ug/L	0.006	0	32	2301	0	Standard
	Ba	137	0.617	ug/L	0.020	3	55	3933	1	Standard
>	Tb	159		ug/L			1418865	1405519	0	Standard
	Tl	205	0.014	ug/L	0.002	13	130	587	10	Standard
	Pb	208	0.032	ug/L	0.001	3	179	1527	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0022-MS4
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, June 02, 2022 22:01:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	958687	2	Standard
	Be	9	12.135	ug/L	0.436	3	12	65403	4	Standard
	C	13		ug/L			19975	35547	0	Standard
	Cl	37		ug/L			4527886	5195556	2	Standard
>	Sc	45		ug/L			1043673	1139186	3	Standard
	V	51	12.453	ug/L	0.168	1	5872	276434	2	Standard
	V-1	51	12.748	ug/L	0.202	1	112	281776	2	Standard
	Cr	52	11.994	ug/L	0.169	1	17301	242610	2	Standard
	Cr	53	12.952	ug/L	0.263	2	113	29123	1	Standard
>	Ge	72		ug/L			32454	30896	2	KED
	Ni	60	12.560	ug/L	0.159	1	11	8279	2	KED
	Ni	62	12.705	ug/L	0.274	2	3	1410	4	KED
	Cu	63	11.798	ug/L	0.112	0	24	23702	2	KED
	Cu	65	12.130	ug/L	0.221	1	19	11865	0	KED
	Zn	66	38.197	ug/L	0.639	1	32	8486	1	KED
	Zn	67	34.938	ug/L	1.043	2	5	1313	4	KED
	As	75	17.123	ug/L	0.333	1	7	1904	2	KED
	Se	78	39.839	ug/L	1.805	4	7	437	4	KED
	Y	89		ug/L			596586	573130	3	Standard
	Kr	83		ug/L			40	56	14	Standard
>	In-1	115		ug/L			9473	8740	0	KED
	Cd	111	12.001	ug/L	0.095	0	2	1656	0	KED
	Cd	114	12.247	ug/L	0.336	2	3	4202	1	KED
>	In	115		ug/L			934250	858079	1	Standard
	Ag	107	12.332	ug/L	0.107	0	53	168558	1	Standard
	Sb	121	12.687	ug/L	0.114	0	226	137758	1	Standard
	Sb	123	12.603	ug/L	0.359	2	166	104704	2	Standard
	Ba	135	13.930	ug/L	0.159	1	32	48356	1	Standard
	Ba	137	13.970	ug/L	0.194	1	55	84348	1	Standard
>	Tb	159		ug/L			1418865	1378882	3	Standard
	Tl	205	11.412	ug/L	0.408	3	130	360367	2	Standard
	Pb	208	11.518	ug/L	0.449	3	179	471918	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 22:09:33
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			912236	940669	4	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.001	155	12	17	40	Standard
	C	**13**		ug/L			19975	22012	2	Standard
	Cl	**37**		ug/L			4527886	4458513	1	Standard
⌈>	**Sc**	**45**		ug/L			1043673	1041525	2	Standard
|	**V**	**51**	**0.012**	ug/L	0.006	50	5872	6098	0	Standard
|	**V-1**	**51**	**0.010**	ug/L	0.001	5	112	313	3	Standard
|	**Cr**	**52**	**0.047**	ug/L	0.015	32	17301	18066	0	Standard
⌊	**Cr**	**53**	**0.038**	ug/L	0.006	15	113	191	7	Standard
⌈>	**Ge**	**72**		ug/L			32454	31980	1	KED
|	**Ni**	**60**	**0.018**	ug/L	0.006	36	11	23	18	KED
|	**Ni**	**62**	**0.045**	ug/L	0.009	19	3	8	13	KED
|	**Cu**	**63**	**0.236**	ug/L	0.002	0	24	514	1	KED
|	**Cu**	**65**	**0.227**	ug/L	0.028	12	19	248	12	KED
|	**Zn**	**66**	**0.587**	ug/L	0.114	19	32	166	14	KED
|	**Zn**	**67**	**0.576**	ug/L	0.126	21	5	27	17	KED
|	**As**	**75**	**-0.006**	ug/L	0.007	109	7	6	11	KED
⌊	**Se**	**78**	**-0.105**	ug/L	0.133	127	7	6	23	KED
	Y	**89**		ug/L			596586	571729	0	Standard
	Kr	**83**		ug/L			40	37	22	Standard
⌈>	**In-1**	**115**		ug/L			9473	9124	1	KED
|	**Cd**	**111**	**0.007**	ug/L	0.008	107	2	3	31	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.009	163	3	5	59	KED
⌈>	**In**	**115**		ug/L			934250	884938	1	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	35	53	81	14	Standard
|	**Sb**	**121**	**-0.011**	ug/L	0.001	10	226	96	11	Standard
|	**Sb**	**123**	**-0.010**	ug/L	0.002	15	166	73	16	Standard
|	**Ba**	**135**	**0.054**	ug/L	0.005	9	32	224	9	Standard
⌊	**Ba**	**137**	**0.052**	ug/L	0.005	9	55	375	9	Standard
⌈>	**Tb**	**159**		ug/L			1418865	1351774	2	Standard
|	**Tl**	**205**	**0.010**	ug/L	0.002	16	130	426	10	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.001	5	179	741	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 22:14:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			912236	961563	2	Standard
	Be	9	49.186	ug/L	1.804	3	12	265736	2	Standard
	C	13		ug/L			19975	21460	1	Standard
	Cl	37		ug/L			4527886	4715100	0	Standard
>	Sc	45		ug/L			1043673	1052896	2	Standard
	V	51	49.174	ug/L	0.483	0	5872	991582	1	Standard
	V-1	51	49.218	ug/L	0.458	0	112	1005386	1	Standard
	Cr	52	48.137	ug/L	0.687	1	17301	847365	1	Standard
	Cr	53	48.335	ug/L	0.590	1	113	100166	1	Standard
>	Ge	72		ug/L			32454	31521	2	KED
	Ni	60	45.648	ug/L	0.867	1	11	30662	1	KED
	Ni	62	44.936	ug/L	1.261	2	3	5078	2	KED
	Cu	63	46.532	ug/L	1.491	3	24	95272	2	KED
	Cu	65	47.283	ug/L	0.911	1	19	47152	3	KED
	Zn	66	47.340	ug/L	0.399	0	32	10724	1	KED
	Zn	67	47.293	ug/L	1.151	2	5	1811	0	KED
	As	75	49.262	ug/L	1.214	2	7	5576	2	KED
	Se	78	49.698	ug/L	1.232	2	7	554	1	KED
	Y	89		ug/L			596586	578527	1	Standard
	Kr	83		ug/L			40	45	29	Standard
>	In-1	115		ug/L			9473	8753	5	KED
	Cd	111	50.194	ug/L	2.845	5	2	6917	0	KED
	Cd	114	49.516	ug/L	3.594	7	3	16966	2	KED
>	In	115		ug/L			934250	895319	1	Standard
	Ag	107	48.088	ug/L	1.789	3	53	685357	2	Standard
	Sb	121	49.192	ug/L	1.252	2	226	556565	0	Standard
	Sb	123	48.979	ug/L	0.849	1	166	424070	0	Standard
	Ba	135	50.089	ug/L	0.385	0	32	181335	1	Standard
	Ba	137	49.898	ug/L	1.586	3	55	314116	1	Standard
>	Tb	159		ug/L			1418865	1366381	1	Standard
	Tl	205	44.994	ug/L	0.317	0	130	1408198	1	Standard
	Pb	208	45.855	ug/L	0.533	1	179	1862206	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 22:22:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			912236	951725	0	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.000	139	12	13	0	Standard
	C	**13**		ug/L			19975	20244	3	Standard
	Cl	**37**		ug/L			4527886	4582615	0	Standard
⌈>	**Sc**	**45**		ug/L			1043673	1034271	0	Standard
|	**V**	**51**	**0.001**	ug/L	0.012	793	5872	5847	3	Standard
|	**V-1**	**51**	**0.003**	ug/L	0.000	13	112	161	3	Standard
|	**Cr**	**52**	**0.002**	ug/L	0.037	1807	17301	17177	2	Standard
⌊	**Cr**	**53**	**0.005**	ug/L	0.005	97	113	122	8	Standard
⌈>	**Ge**	**72**		ug/L			32454	31134	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.009	285	11	8	61	KED
|	**Ni**	**62**	**0.007**	ug/L	0.030	422	3	3	86	KED
|	**Cu**	**63**	**0.006**	ug/L	0.003	48	24	36	15	KED
|	**Cu**	**65**	**0.012**	ug/L	0.001	10	19	29	3	KED
|	**Zn**	**66**	**0.025**	ug/L	0.044	175	32	36	28	KED
|	**Zn**	**67**	**0.089**	ug/L	0.071	80	5	8	35	KED
|	**As**	**75**	**0.007**	ug/L	0.019	274	7	7	27	KED
⌊	**Se**	**78**	**-0.158**	ug/L	0.034	21	7	5	8	KED
	Y	**89**		ug/L			596586	566262	1	Standard
	Kr	**83**		ug/L			40	39	19	Standard
⌈>	**In-1**	**115**		ug/L			9473	9090	3	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.008	582	2	2	49	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.011	190	3	5	68	KED
⌈>	**In**	**115**		ug/L			934250	875517	0	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.000	61	53	60	10	Standard
|	**Sb**	**121**	**0.027**	ug/L	0.003	12	226	513	6	Standard
|	**Sb**	**123**	**0.029**	ug/L	0.002	6	166	398	4	Standard
|	**Ba**	**135**	**-0.002**	ug/L	0.003	210	32	24	46	Standard
⌊	**Ba**	**137**	**-0.001**	ug/L	0.001	115	55	45	17	Standard
⌈>	**Tb**	**159**		ug/L			1418865	1337208	1	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.001	19	130	226	8	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	32	179	151	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 22:26:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L				968314	4	Standard
⌊	**Be**	**9**		ug/L				12	31	Standard
	C	**13**		ug/L				20697	2	Standard
	Cl	**37**		ug/L				4547517	2	Standard
⌈>	**Sc**	**45**		ug/L				1022646	2	Standard
|	**V**	**51**		ug/L				5911	2	Standard
|	**V-1**	**51**		ug/L				123	3	Standard
|	**Cr**	**52**		ug/L				17431	2	Standard
⌊	**Cr**	**53**		ug/L				118	8	Standard
⌈>	**Ge**	**72**		ug/L				29123	3	KED
|	**Ni**	**60**		ug/L				6	56	KED
|	**Ni**	**62**		ug/L				5	114	KED
|	**Cu**	**63**		ug/L				29	35	KED
|	**Cu**	**65**		ug/L				19	20	KED
|	**Zn**	**66**		ug/L				22	30	KED
|	**Zn**	**67**		ug/L				5	57	KED
|	**As**	**75**		ug/L				4	24	KED
⌊	**Se**	**78**		ug/L				6	7	KED
	Y	**89**		ug/L				576124	3	Standard
	Kr	**83**		ug/L				33	31	Standard
⌈>	**In-1**	**115**		ug/L				8648	1	KED
|	**Cd**	**111**		ug/L				1	91	KED
⌊	**Cd**	**114**		ug/L				2	43	KED
⌈>	**In**	**115**		ug/L				886165	1	Standard
|	**Ag**	**107**		ug/L				59	20	Standard
|	**Sb**	**121**		ug/L				164	14	Standard
|	**Sb**	**123**		ug/L				136	19	Standard
|	**Ba**	**135**		ug/L				19	24	Standard
⌊	**Ba**	**137**		ug/L				41	20	Standard
⌈>	**Tb**	**159**		ug/L				1329710	2	Standard
|	**Tl**	**205**		ug/L				142	11	Standard
⌊	**Pb**	**208**		ug/L				128	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 22:31:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			968314	920708	2	Standard
	Be	**9**	**49.809**	ug/L	0.558	1	12	257826	3	Standard
	C	**13**		ug/L			20697	20269	3	Standard
	Cl	**37**		ug/L			4547517	4643503	1	Standard
>	**Sc**	**45**		ug/L			1022646	1014538	1	Standard
	V	**51**	**49.793**	ug/L	0.850	1	5911	967534	0	Standard
	V-1	**51**	**49.652**	ug/L	0.746	1	123	977299	0	Standard
	Cr	**52**	**49.004**	ug/L	0.698	1	17431	831461	1	Standard
	Cr	**53**	**48.607**	ug/L	0.387	0	118	97077	1	Standard
>	**Ge**	**72**		ug/L			29123	28946	10	KED
	Ni	**60**	**48.956**	ug/L	5.854	11	6	29949	0	KED
	Ni	**62**	**48.888**	ug/L	6.144	12	5	5035	4	KED
	Cu	**63**	**49.241**	ug/L	5.516	11	29	91899	0	KED
	Cu	**65**	**50.326**	ug/L	5.238	10	19	45754	2	KED
	Zn	**66**	**49.952**	ug/L	5.208	10	22	10310	1	KED
	Zn	**67**	**50.866**	ug/L	7.576	14	5	1771	3	KED
	As	**75**	**52.609**	ug/L	5.912	11	4	5425	1	KED
	Se	**78**	**52.868**	ug/L	7.633	14	6	535	3	KED
	Y	**89**		ug/L			576124	568482	2	Standard
	Kr	**83**		ug/L			33	41	22	Standard
>	**In-1**	**115**		ug/L			8648	8601	0	KED
	Cd	**111**	**47.881**	ug/L	0.581	1	1	6496	0	KED
	Cd	**114**	**49.573**	ug/L	0.572	1	2	16732	1	KED
>	**In**	**115**		ug/L			886165	865329	1	Standard
	Ag	**107**	**48.153**	ug/L	0.748	1	59	663519	1	Standard
	Sb	**121**	**49.272**	ug/L	0.775	1	164	538918	2	Standard
	Sb	**123**	**48.803**	ug/L	0.608	1	136	408422	0	Standard
	Ba	**135**	**49.632**	ug/L	0.013	0	19	173666	1	Standard
	Ba	**137**	**50.183**	ug/L	0.486	0	41	305425	1	Standard
>	**Tb**	**159**		ug/L			1329710	1344670	1	Standard
	Tl	**205**	**43.694**	ug/L	1.109	2	142	1345481	0	Standard
	Pb	**208**	**45.370**	ug/L	1.211	2	128	1812896	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 22:39:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			968314	926058	4	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.001	46115	12	12	39	Standard
	C	**13**		ug/L			20697	20487	1	Standard
	Cl	**37**		ug/L			4547517	4573487	0	Standard
⌈>	**Sc**	**45**		ug/L			1022646	1022479	2	Standard
|	**V**	**51**	**-0.003**	ug/L	0.004	144	5911	5860	2	Standard
|	**V-1**	**51**	**-0.001**	ug/L	0.000	29	123	101	7	Standard
|	**Cr**	**52**	**-0.012**	ug/L	0.011	86	17431	17217	2	Standard
⌊	**Cr**	**53**	**-0.007**	ug/L	0.004	51	118	103	10	Standard
⌈>	**Ge**	**72**		ug/L			29123	30050	1	KED
|	**Ni**	**60**	**0.005**	ug/L	0.009	197	6	10	57	KED
|	**Ni**	**62**	**-0.025**	ug/L	0.027	110	5	2	114	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	52	29	36	9	KED
|	**Cu**	**65**	**0.001**	ug/L	0.009	1158	19	20	39	KED
|	**Zn**	**66**	**-0.009**	ug/L	0.027	301	22	21	25	KED
|	**Zn**	**67**	**-0.040**	ug/L	0.103	253	5	3	100	KED
|	**As**	**75**	**0.016**	ug/L	0.017	105	4	6	28	KED
⌊	**Se**	**78**	**0.131**	ug/L	0.119	90	6	7	17	KED
	Y	**89**		ug/L			576124	568245	2	Standard
	Kr	**83**		ug/L			33	37	14	Standard
⌈>	**In-1**	**115**		ug/L			8648	8885	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.008	295	1	1	86	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.003	82	2	1	90	KED
⌈>	**In**	**115**		ug/L			886165	878666	1	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.001	108	59	77	25	Standard
|	**Sb**	**121**	**0.030**	ug/L	0.003	9	164	493	4	Standard
|	**Sb**	**123**	**0.030**	ug/L	0.006	19	136	389	11	Standard
|	**Ba**	**135**	**0.000**	ug/L	0.001	1732	19	19	14	Standard
⌊	**Ba**	**137**	**-0.001**	ug/L	0.002	249	41	37	25	Standard
⌈>	**Tb**	**159**		ug/L			1329710	1318844	2	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	67	142	120	13	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	350	128	131	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0303-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 22:44:25
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	993626	2	Standard
	Be	9	0.100	ug/L	0.007	7	12	570	8	Standard
	C	13		ug/L			20697	35493	2	Standard
	Cl	37		ug/L			4547517	4687112	0	Standard
>	Sc	45		ug/L			1022646	1117770	1	Standard
	V	51	17.673	ug/L	0.120	0	5911	382605	2	Standard
	V-1	51	17.675	ug/L	0.083	0	123	383465	2	Standard
	Cr	52	23.936	ug/L	0.191	0	17431	457227	1	Standard
	Cr	53	23.575	ug/L	0.124	0	118	51941	1	Standard
>	Ge	72		ug/L			29123	30471	3	KED
	Ni	60	16.918	ug/L	0.530	3	6	10984	2	KED
	Ni	62	16.881	ug/L	0.689	4	5	1848	4	KED
	Cu	63	79.291	ug/L	3.755	4	29	156813	1	KED
	Cu	65	81.150	ug/L	3.850	4	19	78122	1	KED
	Zn	66	124.085	ug/L	7.810	6	22	27083	3	KED
	Zn	67	127.391	ug/L	7.168	5	5	4704	1	KED
	As	75	11.822	ug/L	0.733	6	4	1295	2	KED
	Se	78	0.620	ug/L	0.205	33	6	13	19	KED
	Y	89		ug/L			576124	673139	3	Standard
	Kr	83		ug/L			33	56	5	Standard
>	In-1	115		ug/L			8648	8986	1	KED
	Cd	111	0.320	ug/L	0.028	8	1	46	9	KED
	Cd	114	0.290	ug/L	0.045	15	2	104	14	KED
>	In	115		ug/L			886165	895489	1	Standard
	Ag	107	0.488	ug/L	0.014	2	59	7019	3	Standard
	Sb	121	0.153	ug/L	0.003	2	164	1892	3	Standard
	Sb	123	0.156	ug/L	0.008	5	136	1489	3	Standard
	Ba	135	133.767	ug/L	0.575	0	19	484350	1	Standard
	Ba	137	130.079	ug/L	2.558	1	41	819094	0	Standard
>	Tb	159		ug/L			1329710	1387605	2	Standard
	Tl	205	0.040	ug/L	0.002	4	142	1422	2	Standard
	Pb	208	74.132	ug/L	2.084	2	128	3056172	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0303-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 22:49:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			968314	986201	3	Standard
⌊	Be	9	0.092	ug/L	0.003	3	12	523	3	Standard
	C	13		ug/L			20697	38758	1	Standard
	Cl	37		ug/L			4547517	4719741	1	Standard
⌈>	Sc	45		ug/L			1022646	1090606	1	Standard
|	V	51	17.315	ug/L	0.202	1	5911	365815	0	Standard
|	V-1	51	17.268	ug/L	0.216	1	123	365469	0	Standard
|	Cr	52	18.392	ug/L	0.325	1	17431	347092	1	Standard
⌊	Cr	53	18.180	ug/L	0.473	2	118	39110	2	Standard
⌈>	Ge	72		ug/L			29123	31426	1	KED
|	Ni	60	14.749	ug/L	0.248	1	6	9881	0	KED
|	Ni	62	14.730	ug/L	0.935	6	5	1663	5	KED
|	Cu	63	109.394	ug/L	3.182	2	29	223292	1	KED
|	Cu	65	112.764	ug/L	3.702	3	19	112038	1	KED
|	Zn	66	121.762	ug/L	3.095	2	22	27440	1	KED
|	Zn	67	108.586	ug/L	2.369	2	5	4141	0	KED
|	As	75	7.901	ug/L	0.139	1	4	895	0	KED
⌊	Se	78	0.543	ug/L	0.180	33	6	12	16	KED
	Y	89		ug/L			576124	668901	2	Standard
	Kr	83		ug/L			33	55	34	Standard
⌈>	In-1	115		ug/L			8648	9034	1	KED
|	Cd	111	0.185	ug/L	0.027	14	1	27	12	KED
⌊	Cd	114	0.176	ug/L	0.031	17	2	64	15	KED
⌈>	In	115		ug/L			886165	899196	1	Standard
|	Ag	107	0.133	ug/L	0.013	9	59	1965	9	Standard
|	Sb	121	0.168	ug/L	0.008	4	164	2071	5	Standard
|	Sb	123	0.164	ug/L	0.001	0	136	1562	0	Standard
|	Ba	135	28.881	ug/L	0.439	1	19	105024	2	Standard
⌊	Ba	137	28.667	ug/L	0.478	1	41	181310	1	Standard
⌈>	Tb	159		ug/L			1329710	1377177	1	Standard
|	Tl	205	0.027	ug/L	0.002	6	142	999	6	Standard
⌊	Pb	208	62.852	ug/L	1.674	2	128	2572038	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0303-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 22:54:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			968314	1013147	5	Standard
	Be	**9**	**0.208**	ug/L	0.016	7	12	1194	4	Standard
	C	**13**		ug/L			20697	33303	3	Standard
	Cl	**37**		ug/L			4547517	4754183	2	Standard
>	**Sc**	**45**		ug/L			1022646	1175789	2	Standard
	V	**51**	**34.988**	ug/L	0.740	2	5911	789797	1	Standard
	V-1	**51**	**34.991**	ug/L	0.757	2	123	798054	0	Standard
	Cr	**52**	**37.203**	ug/L	0.304	0	17431	736405	2	Standard
	Cr	**53**	**37.083**	ug/L	0.437	1	118	85854	1	Standard
>	**Ge**	**72**		ug/L			29123	31328	2	KED
	Ni	**60**	**41.113**	ug/L	1.332	3	6	27447	3	KED
	Ni	**62**	**40.291**	ug/L	0.963	2	5	4527	1	KED
	Cu	**63**	**43.330**	ug/L	1.179	2	29	88168	0	KED
	Cu	**65**	**45.025**	ug/L	0.981	2	19	44616	2	KED
	Zn	**66**	**55.891**	ug/L	0.566	1	22	12573	3	KED
	Zn	**67**	**55.231**	ug/L	1.468	2	5	2102	1	KED
	As	**75**	**4.737**	ug/L	0.144	3	4	537	2	KED
	Se	**78**	**1.161**	ug/L	0.188	16	6	19	9	KED
	Y	**89**		ug/L			576124	763467	2	Standard
	Kr	**83**		ug/L			33	90	7	Standard
>	**In-1**	**115**		ug/L			8648	8174	8	KED
	Cd	**111**	**0.101**	ug/L	0.028	27	1	14	17	KED
	Cd	**114**	**0.161**	ug/L	0.035	21	2	53	20	KED
>	**In**	**115**		ug/L			886165	871995	0	Standard
	Ag	**107**	**0.084**	ug/L	0.004	5	59	1222	4	Standard
	Sb	**121**	**-0.001**	ug/L	0.000	26	164	151	2	Standard
	Sb	**123**	**-0.001**	ug/L	0.001	86	136	122	8	Standard
	Ba	**135**	**50.406**	ug/L	0.832	1	19	177737	2	Standard
	Ba	**137**	**51.296**	ug/L	0.227	0	41	314598	0	Standard
>	**Tb**	**159**		ug/L			1329710	1377116	0	Standard
	Tl	**205**	**0.066**	ug/L	0.003	4	142	2223	3	Standard
	Pb	**208**	**9.318**	ug/L	0.136	1	128	381530	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0438-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 22:59:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	981656	0	Standard
	Be	9	0.118	ug/L	0.003	2	12	664	3	Standard
	C	13		ug/L			20697	27868	1	Standard
	Cl	37		ug/L			4547517	4693900	0	Standard
>	Sc	45		ug/L			1022646	1116090	2	Standard
	V	51	27.237	ug/L	0.552	2	5911	585144	1	Standard
	V-1	51	26.928	ug/L	0.562	2	123	583127	2	Standard
	Cr	52	21.507	ug/L	0.457	2	17431	412049	0	Standard
	Cr	53	20.869	ug/L	0.377	1	118	45916	0	Standard
>	Ge	72		ug/L			29123	31069	1	KED
	Ni	60	24.104	ug/L	0.254	1	6	15964	1	KED
	Ni	62	23.660	ug/L	1.046	4	5	2639	3	KED
	Cu	63	17.928	ug/L	0.213	1	29	36214	1	KED
	Cu	65	18.705	ug/L	0.287	1	19	18395	0	KED
	Zn	66	34.258	ug/L	0.509	1	22	7652	2	KED
	Zn	67	32.055	ug/L	0.529	1	5	1212	1	KED
	As	75	2.720	ug/L	0.028	1	4	308	1	KED
	Se	78	1.056	ug/L	0.538	50	6	18	31	KED
	Y	89		ug/L			576124	682698	3	Standard
	Kr	83		ug/L			33	69	12	Standard
>	In-1	115		ug/L			8648	8822	2	KED
	Cd	111	0.036	ug/L	0.019	51	1	6	37	KED
	Cd	114	0.047	ug/L	0.026	55	2	18	45	KED
>	In	115		ug/L			886165	867604	2	Standard
	Ag	107	0.024	ug/L	0.002	8	59	382	5	Standard
	Sb	121	0.008	ug/L	0.000	6	164	244	2	Standard
	Sb	123	0.006	ug/L	0.002	35	136	183	7	Standard
	Ba	135	23.411	ug/L	0.730	3	19	82110	2	Standard
	Ba	137	23.439	ug/L	0.532	2	41	143005	0	Standard
>	Tb	159		ug/L			1329710	1354266	0	Standard
	Tl	205	0.028	ug/L	0.001	5	142	999	3	Standard
	Pb	208	7.472	ug/L	0.163	2	128	300864	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0438-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 23:04:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	1049703	3	Standard
	Be	9	0.134	ug/L	0.002	1	12	805	4	Standard
	C	13		ug/L			20697	35486	2	Standard
	Cl	37		ug/L			4547517	4723881	2	Standard
>	Sc	45		ug/L			1022646	1203607	2	Standard
	V	51	42.691	ug/L	0.393	0	5911	985165	1	Standard
	V-1	51	42.333	ug/L	0.388	0	123	988556	1	Standard
	Cr	52	29.000	ug/L	0.709	2	17431	592030	1	Standard
	Cr	53	28.675	ug/L	0.636	2	118	67983	1	Standard
>	Ge	72		ug/L			29123	31000	1	KED
	Ni	60	34.966	ug/L	1.106	3	6	23095	1	KED
	Ni	62	34.192	ug/L	1.845	5	5	3802	3	KED
	Cu	63	13.878	ug/L	0.646	4	29	27966	3	KED
	Cu	65	14.370	ug/L	0.653	4	19	14100	3	KED
	Zn	66	977.582	ug/L	30.425	3	22	217146	1	KED
	Zn	67	895.541	ug/L	22.244	2	5	33653	0	KED
	As	75	4.017	ug/L	0.092	2	4	452	3	KED
	Se	78	0.978	ug/L	0.041	4	6	17	1	KED
	Y	89		ug/L			576124	717338	3	Standard
	Kr	83		ug/L			33	81	2	Standard
>	In-1	115		ug/L			8648	8908	1	KED
	Cd	111	2.538	ug/L	0.093	3	1	358	2	KED
	Cd	114	2.521	ug/L	0.068	2	2	883	1	KED
>	In	115		ug/L			886165	886139	0	Standard
	Ag	107	0.032	ug/L	0.002	6	59	516	5	Standard
	Sb	121	0.014	ug/L	0.002	16	164	325	8	Standard
	Sb	123	0.013	ug/L	0.003	22	136	250	10	Standard
	Ba	135	20.902	ug/L	0.136	0	19	74905	0	Standard
	Ba	137	21.188	ug/L	0.179	0	41	132078	0	Standard
>	Tb	159		ug/L			1329710	1395848	1	Standard
	Tl	205	0.028	ug/L	0.001	4	142	1058	2	Standard
	Pb	208	13.303	ug/L	0.280	2	128	551886	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0438-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 23:09:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	1020761	5	Standard
	Be	9	0.120	ug/L	0.004	3	12	705	8	Standard
	C	13		ug/L			20697	29893	0	Standard
	Cl	37		ug/L			4547517	4817154	2	Standard
>	Sc	45		ug/L			1022646	1135923	3	Standard
	V	51	29.452	ug/L	0.617	2	5911	643377	2	Standard
	V-1	51	29.254	ug/L	0.590	2	123	644695	2	Standard
	Cr	52	24.041	ug/L	0.438	1	17431	466468	1	Standard
	Cr	53	23.733	ug/L	0.313	1	118	53132	2	Standard
>	Ge	72		ug/L			29123	29976	9	KED
	Ni	60	23.598	ug/L	2.618	11	6	14978	1	KED
	Ni	62	23.064	ug/L	2.132	9	5	2469	0	KED
	Cu	63	8.388	ug/L	0.855	10	29	16267	2	KED
	Cu	65	8.715	ug/L	0.858	9	19	8232	1	KED
	Zn	66	28.330	ug/L	3.166	11	22	6069	3	KED
	Zn	67	27.650	ug/L	2.546	9	5	1004	0	KED
	As	75	3.833	ug/L	0.116	3	4	416	6	KED
	Se	78	1.118	ug/L	0.166	14	6	18	17	KED
	Y	89		ug/L			576124	696965	1	Standard
	Kr	83		ug/L			33	69	8	Standard
>	In-1	115		ug/L			8648	8807	1	KED
	Cd	111	0.032	ug/L	0.020	63	1	6	45	KED
	Cd	114	0.031	ug/L	0.024	76	2	13	63	KED
>	In	115		ug/L			886165	881882	0	Standard
	Ag	107	0.024	ug/L	0.001	2	59	399	2	Standard
	Sb	121	-0.005	ug/L	0.003	56	164	112	25	Standard
	Sb	123	-0.005	ug/L	0.001	29	136	96	11	Standard
	Ba	135	24.517	ug/L	0.308	1	19	87437	1	Standard
	Ba	137	24.470	ug/L	0.369	1	41	151794	1	Standard
>	Tb	159		ug/L			1329710	1359544	1	Standard
	Tl	205	0.036	ug/L	0.002	4	142	1259	2	Standard
	Pb	208	1.411	ug/L	0.019	1	128	57135	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0366-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 23:14:33

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	1047923	1	Standard
	Be	9	0.120	ug/L	0.008	6	12	718	6	Standard
	C	13		ug/L			20697	44704	1	Standard
	Cl	37		ug/L			4547517	4952930	1	Standard
>	Sc	45		ug/L			1022646	1195206	1	Standard
	V	51	19.011	ug/L	0.197	1	5911	439531	1	Standard
	V-1	51	18.814	ug/L	0.139	0	123	436417	1	Standard
	Cr	52	16.587	ug/L	0.199	1	17431	345044	1	Standard
	Cr	53	16.109	ug/L	0.231	1	118	37994	0	Standard
>	Ge	72		ug/L			29123	31757	1	KED
	Ni	60	22.396	ug/L	0.318	1	6	15159	0	KED
	Ni	62	22.610	ug/L	0.465	2	5	2578	1	KED
	Cu	63	95.563	ug/L	1.179	1	29	197198	2	KED
	Cu	65	97.536	ug/L	0.433	0	19	97958	1	KED
	Zn	66	138.846	ug/L	2.479	1	22	31617	0	KED
	Zn	67	132.476	ug/L	1.786	1	5	5105	0	KED
	As	75	6.045	ug/L	0.037	0	4	693	1	KED
	Se	78	0.605	ug/L	0.214	35	6	13	17	KED
	Y	89		ug/L			576124	688906	0	Standard
	Kr	83		ug/L			33	69	3	Standard
>	In-1	115		ug/L			8648	9214	2	KED
	Cd	111	0.312	ug/L	0.038	12	1	46	11	KED
	Cd	114	0.342	ug/L	0.042	12	2	126	13	KED
>	In	115		ug/L			886165	909885	0	Standard
	Ag	107	0.163	ug/L	0.004	2	59	2417	3	Standard
	Sb	121	0.037	ug/L	0.002	5	164	599	3	Standard
	Sb	123	0.040	ug/L	0.002	4	136	488	2	Standard
	Ba	135	67.411	ug/L	0.691	1	19	248013	1	Standard
	Ba	137	67.329	ug/L	0.690	1	41	430847	0	Standard
>	Tb	159		ug/L			1329710	1424006	0	Standard
	Tl	205	0.032	ug/L	0.001	1	142	1186	1	Standard
	Pb	208	363.386	ug/L	6.938	1	128	15379431	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0021-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 23:19:26

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			968314	998972	4	Standard
⌊	**Be**	**9**	**0.119**	ug/L	0.002	1	12	683	4	Standard
	C	**13**		ug/L			20697	44289	1	Standard
	Cl	**37**		ug/L			4547517	4907881	0	Standard
⌈>	**Sc**	**45**		ug/L			1022646	1135172	1	Standard
⌈	**V**	**51**	**19.287**	ug/L	0.024	0	5911	423418	1	Standard
⌈	**V-1**	**51**	**19.179**	ug/L	0.006	0	123	422542	2	Standard
⌈	**Cr**	**52**	**16.671**	ug/L	0.113	0	17431	329273	1	Standard
⌊	**Cr**	**53**	**16.485**	ug/L	0.050	0	118	36927	1	Standard
⌈>	**Ge**	**72**		ug/L			29123	31454	1	KED
⌈	**Ni**	**60**	**23.331**	ug/L	0.403	1	6	15641	1	KED
⌈	**Ni**	**62**	**22.603**	ug/L	0.141	0	5	2553	2	KED
⌈	**Cu**	**63**	**88.906**	ug/L	1.008	1	29	181680	1	KED
⌈	**Cu**	**65**	**92.457**	ug/L	1.657	1	19	91966	1	KED
⌈	**Zn**	**66**	**142.355**	ug/L	4.832	3	22	32104	2	KED
⌈	**Zn**	**67**	**135.274**	ug/L	4.751	3	5	5162	2	KED
⌈	**As**	**75**	**6.745**	ug/L	0.127	1	4	766	2	KED
⌊	**Se**	**78**	**0.635**	ug/L	0.295	46	6	13	21	KED
	Y	**89**		ug/L			576124	672814	1	Standard
	Kr	**83**		ug/L			33	53	7	Standard
⌈>	**In-1**	**115**		ug/L			8648	9058	1	KED
⌈	**Cd**	**111**	**0.268**	ug/L	0.030	11	1	40	10	KED
⌊	**Cd**	**114**	**0.346**	ug/L	0.069	19	2	125	20	KED
⌈>	**In**	**115**		ug/L			886165	881218	1	Standard
⌈	**Ag**	**107**	**0.164**	ug/L	0.007	3	59	2361	3	Standard
⌈	**Sb**	**121**	**0.044**	ug/L	0.001	3	164	654	3	Standard
⌈	**Sb**	**123**	**0.043**	ug/L	0.002	5	136	501	5	Standard
⌈	**Ba**	**135**	**72.314**	ug/L	2.232	3	19	257592	1	Standard
⌊	**Ba**	**137**	**72.169**	ug/L	0.534	0	41	447282	1	Standard
⌈>	**Tb**	**159**		ug/L			1329710	1375378	2	Standard
⌈	**Tl**	**205**	**0.033**	ug/L	0.002	5	142	1184	3	Standard
⌊	**Pb**	**208**	**80.950**	ug/L	2.096	2	128	3308380	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0021-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, June 02, 2022 23:24:44

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			968314	989317	7	Standard
	Be	**9**	**24.465**	ug/L	2.222	9	12	135480	2	Standard
	C	**13**		ug/L			20697	40476	2	Standard
	Cl	**37**		ug/L			4547517	4832492	3	Standard
>	**Sc**	**45**		ug/L			1022646	1098094	8	Standard
	V	**51**	**46.057**	ug/L	4.842	10	5911	963506	2	Standard
	V-1	**51**	**45.896**	ug/L	4.680	10	123	972201	1	Standard
	Cr	**52**	**43.094**	ug/L	4.505	10	17431	789064	1	Standard
	Cr	**53**	**42.760**	ug/L	4.124	9	118	91944	1	Standard
>	**Ge**	**72**		ug/L			29123	32019	2	KED
	Ni	**60**	**49.841**	ug/L	0.859	1	6	34001	0	KED
	Ni	**62**	**49.759**	ug/L	0.302	0	5	5716	2	KED
	Cu	**63**	**122.290**	ug/L	3.396	2	29	254285	0	KED
	Cu	**65**	**125.361**	ug/L	3.665	2	19	126882	0	KED
	Zn	**66**	**213.725**	ug/L	3.661	1	22	49054	1	KED
	Zn	**67**	**198.486**	ug/L	2.868	1	5	7709	2	KED
	As	**75**	**29.444**	ug/L	0.743	2	4	3386	1	KED
	Se	**78**	**71.447**	ug/L	1.718	2	6	805	4	KED
	Y	**89**		ug/L			576124	666841	8	Standard
	Kr	**83**		ug/L			33	73	3	Standard
>	**In-1**	**115**		ug/L			8648	8980	0	KED
	Cd	**111**	**23.514**	ug/L	0.712	3	1	3331	2	KED
	Cd	**114**	**23.832**	ug/L	0.318	1	2	8399	1	KED
>	**In**	**115**		ug/L			886165	870827	8	Standard
	Ag	**107**	**23.967**	ug/L	2.630	10	59	330318	1	Standard
	Sb	**121**	**0.073**	ug/L	0.012	16	164	955	5	Standard
	Sb	**123**	**0.075**	ug/L	0.012	15	136	761	3	Standard
	Ba	**135**	**97.774**	ug/L	9.711	9	19	342333	1	Standard
	Ba	**137**	**97.376**	ug/L	9.305	9	41	593133	0	Standard
>	**Tb**	**159**		ug/L			1329710	1343432	9	Standard
	Tl	**205**	**23.187**	ug/L	2.677	11	142	708409	1	Standard
	Pb	**208**	**141.032**	ug/L	17.569	12	128	5587828	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 23:31:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			968314	971219	2	Standard
	Be	**9**	**0.001**	ug/L	0.001	96	12	19	30	Standard
	C	**13**		ug/L			20697	22638	2	Standard
	Cl	**37**		ug/L			4547517	4698117	1	Standard
>	**Sc**	**45**		ug/L			1022646	1035681	0	Standard
	V	**51**	**-0.015**	ug/L	0.007	47	5911	5696	2	Standard
	V-1	**51**	**0.003**	ug/L	0.001	34	123	181	10	Standard
	Cr	**52**	**-0.044**	ug/L	0.018	40	17431	16912	1	Standard
	Cr	**53**	**0.013**	ug/L	0.003	23	118	147	4	Standard
>	**Ge**	**72**		ug/L			29123	29647	1	KED
	Ni	**60**	**0.039**	ug/L	0.015	38	6	31	30	KED
	Ni	**62**	**0.023**	ug/L	0.018	79	5	7	25	KED
	Cu	**63**	**0.220**	ug/L	0.018	7	29	452	6	KED
	Cu	**65**	**0.235**	ug/L	0.000	0	19	240	1	KED
	Zn	**66**	**0.694**	ug/L	0.036	5	22	170	5	KED
	Zn	**67**	**0.671**	ug/L	0.370	55	5	29	44	KED
	As	**75**	**0.016**	ug/L	0.024	154	4	6	37	KED
	Se	**78**	**0.005**	ug/L	0.238	4827	6	6	37	KED
	Y	**89**		ug/L			576124	562783	0	Standard
	Kr	**83**		ug/L			33	36	27	Standard
>	**In-1**	**115**		ug/L			8648	8575	0	KED
	Cd	**111**	**0.000**	ug/L	0.004	4570	1	1	34	KED
	Cd	**114**	**0.007**	ug/L	0.006	87	2	4	44	KED
>	**In**	**115**		ug/L			886165	861874	1	Standard
	Ag	**107**	**0.001**	ug/L	0.001	142	59	65	18	Standard
	Sb	**121**	**-0.009**	ug/L	0.001	7	164	57	12	Standard
	Sb	**123**	**-0.010**	ug/L	0.000	1	136	46	4	Standard
	Ba	**135**	**0.060**	ug/L	0.004	7	19	229	7	Standard
	Ba	**137**	**0.058**	ug/L	0.001	2	41	391	2	Standard
>	**Tb**	**159**		ug/L			1329710	1298317	0	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	9	142	83	6	Standard
	Pb	**208**	**0.023**	ug/L	0.002	7	128	1031	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 23:35:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			968314	935997	1	Standard
	Be	**9**	**49.524**	ug/L	2.425	4	12	260449	3	Standard
	C	**13**		ug/L			20697	21460	2	Standard
	Cl	**37**		ug/L			4547517	4719253	1	Standard
>	**Sc**	**45**		ug/L			1022646	1012395	0	Standard
	V	**51**	**49.975**	ug/L	1.146	2	5911	969143	2	Standard
	V-1	**51**	**49.707**	ug/L	1.104	2	123	976424	1	Standard
	Cr	**52**	**48.949**	ug/L	0.718	1	17431	828891	1	Standard
	Cr	**53**	**48.162**	ug/L	0.712	1	118	95993	1	Standard
>	**Ge**	**72**		ug/L			29123	29669	1	KED
	Ni	**60**	**46.750**	ug/L	0.851	1	6	29557	2	KED
	Ni	**62**	**47.123**	ug/L	1.114	2	5	5016	3	KED
	Cu	**63**	**46.743**	ug/L	0.711	1	29	90101	0	KED
	Cu	**65**	**48.401**	ug/L	0.014	0	19	45427	1	KED
	Zn	**66**	**48.515**	ug/L	1.111	2	22	10338	3	KED
	Zn	**67**	**47.206**	ug/L	1.264	2	5	1703	4	KED
	As	**75**	**49.100**	ug/L	0.402	0	4	5230	1	KED
	Se	**78**	**49.132**	ug/L	2.913	5	6	515	5	KED
	Y	**89**		ug/L			576124	549684	1	Standard
	Kr	**83**		ug/L			33	36	26	Standard
>	**In-1**	**115**		ug/L			8648	8357	1	KED
	Cd	**111**	**50.112**	ug/L	0.581	1	1	6605	0	KED
	Cd	**114**	**49.318**	ug/L	0.303	0	2	16172	0	KED
>	**In**	**115**		ug/L			886165	830426	0	Standard
	Ag	**107**	**47.966**	ug/L	0.567	1	59	634366	1	Standard
	Sb	**121**	**49.860**	ug/L	0.441	0	164	523322	0	Standard
	Sb	**123**	**49.702**	ug/L	0.365	0	136	399184	0	Standard
	Ba	**135**	**50.804**	ug/L	0.297	0	19	170600	1	Standard
	Ba	**137**	**50.425**	ug/L	0.884	1	41	294491	1	Standard
>	**Tb**	**159**		ug/L			1329710	1299024	1	Standard
	Tl	**205**	**44.313**	ug/L	0.542	1	142	1318473	1	Standard
	Pb	**208**	**45.627**	ug/L	0.874	1	128	1761427	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 23:43:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			968314	974803	2	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.001	113	12	17	34	Standard
	C	**13**		ug/L			20697	21233	2	Standard
	Cl	**37**		ug/L			4547517	4676325	2	Standard
⌈>	**Sc**	**45**		ug/L			1022646	1019669	1	Standard
⌈	**V**	**51**	**-0.004**	ug/L	0.010	225	5911	5805	1	Standard
⌈	**V-1**	**51**	**-0.002**	ug/L	0.000	24	123	84	13	Standard
⌈	**Cr**	**52**	**-0.019**	ug/L	0.038	195	17431	17049	1	Standard
⌊	**Cr**	**53**	**-0.011**	ug/L	0.003	29	118	97	4	Standard
⌈>	**Ge**	**72**		ug/L			29123	29458	0	KED
⌈	**Ni**	**60**	**0.002**	ug/L	0.009	466	6	8	66	KED
⌈	**Ni**	**62**	**-0.013**	ug/L	0.031	242	5	3	86	KED
⌈	**Cu**	**63**	**0.000**	ug/L	0.003	2040	29	29	19	KED
⌈	**Cu**	**65**	**-0.004**	ug/L	0.006	172	19	16	35	KED
⌈	**Zn**	**66**	**-0.016**	ug/L	0.034	207	22	19	36	KED
⌈	**Zn**	**67**	**-0.037**	ug/L	0.054	144	5	3	50	KED
⌈	**As**	**75**	**0.007**	ug/L	0.019	278	4	5	36	KED
⌊	**Se**	**78**	**-0.094**	ug/L	0.199	211	6	5	36	KED
	Y	**89**		ug/L			576124	557527	0	Standard
	Kr	**83**		ug/L			33	32	15	Standard
⌈>	**In-1**	**115**		ug/L			8648	8520	0	KED
⌈	**Cd**	**111**	**0.007**	ug/L	0.011	149	1	2	57	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.007	4039	2	2	90	KED
⌈>	**In**	**115**		ug/L			886165	858391	1	Standard
⌈	**Ag**	**107**	**0.000**	ug/L	0.001	243	59	60	14	Standard
⌈	**Sb**	**121**	**0.028**	ug/L	0.002	6	164	461	4	Standard
⌈	**Sb**	**123**	**0.027**	ug/L	0.003	10	136	355	6	Standard
⌈	**Ba**	**135**	**0.003**	ug/L	0.001	37	19	27	10	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.002	202	41	45	21	Standard
⌈>	**Tb**	**159**		ug/L			1329710	1280484	1	Standard
⌈	**Tl**	**205**	**-0.001**	ug/L	0.001	52	142	97	19	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	11	128	222	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0356-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 23:48:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
> Li	6		ug/L			968314	1293987	3	Standard
Be	9	-0.001	ug/L	0.000	30	12	9	20	Standard
C	13		ug/L			20697	1339281	0	Standard
Cl	37		ug/L			4547517	5031367	0	Standard
> Sc	45		ug/L			1022646	1058019	3	Standard
V	51	1.725	ug/L	0.029	1	5911	40860	2	Standard
V-1	51	0.374	ug/L	0.009	2	123	7806	1	Standard
Cr	52	9.587	ug/L	0.338	3	17431	184028	1	Standard
Cr	53	4.862	ug/L	0.253	5	118	10224	1	Standard
> Ge	72		ug/L			29123	27803	1	KED
Ni	60	10.003	ug/L	0.325	3	6	5930	1	KED
Ni	62	9.956	ug/L	0.337	3	5	996	3	KED
Cu	63	0.646	ug/L	0.018	2	29	1194	1	KED
Cu	65	0.674	ug/L	0.037	5	19	611	6	KED
Zn	66	19.378	ug/L	0.143	0	22	3883	2	KED
Zn	67	18.826	ug/L	0.406	2	5	639	2	KED
As	75	0.232	ug/L	0.077	33	4	27	29	KED
Se	78	0.275	ug/L	0.102	37	6	8	11	KED
Y	89		ug/L			576124	577544	3	Standard
Kr	83		ug/L			33	64	7	Standard
> In-1	115		ug/L			8648	7763	1	KED
Cd	111	0.056	ug/L	0.015	27	1	8	24	KED
Cd	114	0.029	ug/L	0.032	108	2	11	85	KED
> In	115		ug/L			886165	791479	3	Standard
Ag	107	0.003	ug/L	0.001	18	59	87	9	Standard
Sb	121	0.384	ug/L	0.010	2	164	3984	2	Standard
Sb	123	0.383	ug/L	0.023	6	136	3049	2	Standard
Ba	135	15.682	ug/L	0.473	3	19	50169	0	Standard
Ba	137	15.655	ug/L	0.657	4	41	87100	1	Standard
> Tb	159		ug/L			1329710	1284541	2	Standard
Tl	205	0.000	ug/L	0.000	40	142	150	5	Standard
Pb	208	0.135	ug/L	0.005	3	128	5290	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0357-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, June 02, 2022 23:53:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	1064442	3	Standard
	Be	9	-0.001	ug/L	0.001	97	12	10	39	Standard
	C	13		ug/L			20697	401972	0	Standard
	Cl	37		ug/L			4547517	4574310	2	Standard
>	Sc	45		ug/L			1022646	946841	2	Standard
	V	51	0.417	ug/L	0.027	6	5911	12990	4	Standard
	V-1	51	0.142	ug/L	0.002	1	123	2720	1	Standard
	Cr	52	12.499	ug/L	0.125	0	17431	209942	1	Standard
	Cr	53	10.921	ug/L	0.140	1	118	20439	1	Standard
>	Ge	72		ug/L			29123	23372	3	KED
	Ni	60	6.825	ug/L	0.201	2	6	3402	0	KED
	Ni	62	7.177	ug/L	0.554	7	5	604	5	KED
	Cu	63	1.697	ug/L	0.033	1	29	2598	2	KED
	Cu	65	1.735	ug/L	0.114	6	19	1296	3	KED
	Zn	66	12.161	ug/L	1.118	9	22	2051	6	KED
	Zn	67	12.994	ug/L	1.475	11	5	371	8	KED
	As	75	0.361	ug/L	0.064	17	4	34	13	KED
	Se	78	0.332	ug/L	0.129	38	6	7	10	KED
	Y	89		ug/L			576124	517761	1	Standard
	Kr	83		ug/L			33	91	14	Standard
>	In-1	115		ug/L			8648	6720	1	KED
	Cd	111	0.090	ug/L	0.017	19	1	10	18	KED
	Cd	114	0.094	ug/L	0.015	16	2	26	14	KED
>	In	115		ug/L			886165	706875	1	Standard
	Ag	107	0.003	ug/L	0.001	23	59	80	10	Standard
	Sb	121	0.438	ug/L	0.005	1	164	4046	2	Standard
	Sb	123	0.431	ug/L	0.010	2	136	3056	0	Standard
	Ba	135	34.403	ug/L	0.480	1	19	98335	1	Standard
	Ba	137	34.372	ug/L	0.363	1	41	170881	0	Standard
>	Tb	159		ug/L			1329710	1163354	1	Standard
	Tl	205	0.002	ug/L	0.001	82	142	164	19	Standard
	Pb	208	0.030	ug/L	0.002	5	128	1158	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0358-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, June 02, 2022 23:58:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			968314	997948	4	Standard
⌊	Be	9	-0.000	ug/L	0.000	217	12	12	24	Standard
	C	13		ug/L			20697	122190	0	Standard
	Cl	37		ug/L			4547517	4841607	0	Standard
⌈>	Sc	45		ug/L			1022646	1003290	2	Standard
|	V	51	0.083	ug/L	0.037	44	5911	7392	9	Standard
|	V-1	51	0.050	ug/L	0.001	2	123	1094	0	Standard
|	Cr	52	6.310	ug/L	0.066	1	17431	120777	1	Standard
⌊	Cr	53	5.839	ug/L	0.074	1	118	11633	2	Standard
⌈>	Ge	72		ug/L			29123	29603	2	KED
|	Ni	60	2.800	ug/L	0.046	1	6	1773	3	KED
|	Ni	62	2.789	ug/L	0.176	6	5	300	5	KED
|	Cu	63	0.855	ug/L	0.031	3	29	1675	5	KED
|	Cu	65	0.916	ug/L	0.045	4	19	878	6	KED
|	Zn	66	60.864	ug/L	0.652	1	22	12934	1	KED
|	Zn	67	54.893	ug/L	0.397	0	5	1975	2	KED
|	As	75	0.119	ug/L	0.028	23	4	17	16	KED
⌊	Se	78	0.102	ug/L	0.110	107	6	7	13	KED
	Y	89		ug/L			576124	546816	2	Standard
	Kr	83		ug/L			33	40	16	Standard
⌈>	In-1	115		ug/L			8648	7738	5	KED
|	Cd	111	0.260	ug/L	0.036	13	1	33	18	KED
⌊	Cd	114	0.265	ug/L	0.031	11	2	82	5	KED
⌈>	In	115		ug/L			886165	830448	0	Standard
|	Ag	107	0.010	ug/L	0.000	2	59	188	1	Standard
|	Sb	121	0.093	ug/L	0.005	5	164	1130	4	Standard
|	Sb	123	0.089	ug/L	0.002	2	136	843	2	Standard
|	Ba	135	4.986	ug/L	0.075	1	19	16757	1	Standard
⌊	Ba	137	5.014	ug/L	0.027	0	41	29323	0	Standard
⌈>	Tb	159		ug/L			1329710	1307671	0	Standard
|	Tl	205	0.000	ug/L	0.001	161	142	152	13	Standard
⌊	Pb	208	0.100	ug/L	0.003	2	128	4012	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0310-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Friday, June 03, 2022 00:03:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	905538	1	Standard
	Be	9	0.085	ug/L	0.006	6	12	444	5	Standard
	C	13		ug/L			20697	32428	2	Standard
	Cl	37		ug/L			4547517	4613265	1	Standard
>	Sc	45		ug/L			1022646	998135	2	Standard
	V	51	0.348	ug/L	0.012	3	5911	12379	1	Standard
	V-1	51	0.362	ug/L	0.002	0	123	7127	2	Standard
	Cr	52	0.387	ug/L	0.032	8	17431	23329	0	Standard
	Cr	53	0.428	ug/L	0.011	2	118	956	4	Standard
>	Ge	72		ug/L			29123	28244	6	KED
	Ni	60	2.086	ug/L	0.119	5	6	1259	4	KED
	Ni	62	2.262	ug/L	0.246	10	5	233	7	KED
	Cu	63	0.045	ug/L	0.004	8	29	111	12	KED
	Cu	65	0.045	ug/L	0.012	25	19	59	11	KED
	Zn	66	3.565	ug/L	0.357	10	22	740	5	KED
	Zn	67	3.045	ug/L	0.067	2	5	109	7	KED
	As	75	366.559	ug/L	27.531	7	4	37026	1	KED
	Se	78	0.203	ug/L	0.366	179	6	8	47	KED
	Y	89		ug/L			576124	564364	0	Standard
	Kr	83		ug/L			33	39	19	Standard
>	In-1	115		ug/L			8648	7479	2	KED
	Cd	111	0.021	ug/L	0.017	80	1	3	50	KED
	Cd	114	0.006	ug/L	0.006	103	2	3	47	KED
>	In	115		ug/L			886165	844550	0	Standard
	Ag	107	0.000	ug/L	0.001	211	59	60	14	Standard
	Sb	121	38.759	ug/L	0.656	1	164	413733	0	Standard
	Sb	123	38.495	ug/L	0.586	1	136	314449	0	Standard
	Ba	135	0.146	ug/L	0.008	5	19	515	4	Standard
	Ba	137	0.163	ug/L	0.003	1	41	1005	1	Standard
>	Tb	159		ug/L			1329710	1281955	2	Standard
	Tl	205	-0.001	ug/L	0.001	115	142	117	18	Standard
	Pb	208	0.004	ug/L	0.000	10	128	288	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 00:12:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			968314	898698	2	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.000	28	12	5	33	Standard
	C	**13**		ug/L			20697	23144	3	Standard
	Cl	**37**		ug/L			4547517	4542439	1	Standard
⌈>	**Sc**	**45**		ug/L			1022646	973935	2	Standard
|	**V**	**51**	**-0.011**	ug/L	0.006	56	5911	5430	4	Standard
|	**V-1**	**51**	**0.001**	ug/L	0.000	49	123	133	8	Standard
|	**Cr**	**52**	**-0.032**	ug/L	0.014	44	17431	16097	3	Standard
⌊	**Cr**	**53**	**0.006**	ug/L	0.006	87	118	125	7	Standard
⌈>	**Ge**	**72**		ug/L			29123	28687	2	KED
|	**Ni**	**60**	**0.016**	ug/L	0.012	74	6	16	43	KED
|	**Ni**	**62**	**0.032**	ug/L	0.023	70	5	8	26	KED
|	**Cu**	**63**	**0.222**	ug/L	0.011	4	29	441	5	KED
|	**Cu**	**65**	**0.226**	ug/L	0.028	12	19	224	8	KED
|	**Zn**	**66**	**0.626**	ug/L	0.050	7	22	151	4	KED
|	**Zn**	**67**	**0.585**	ug/L	0.101	17	5	25	15	KED
|	**As**	**75**	**0.035**	ug/L	0.009	25	4	8	8	KED
⌊	**Se**	**78**	**0.212**	ug/L	0.277	130	6	8	35	KED
	Y	**89**		ug/L			576124	535976	0	Standard
	Kr	**83**		ug/L			33	39	14	Standard
⌈>	**In-1**	**115**		ug/L			8648	8106	2	KED
|	**Cd**	**111**	**0.001**	ug/L	0.016	1660	1	1	124	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.000	12	2	1	2	KED
⌈>	**In**	**115**		ug/L			886165	832702	0	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.002	196	59	45	43	Standard
|	**Sb**	**121**	**-0.002**	ug/L	0.001	55	164	129	11	Standard
|	**Sb**	**123**	**-0.003**	ug/L	0.002	67	136	107	12	Standard
|	**Ba**	**135**	**0.057**	ug/L	0.005	8	19	211	7	Standard
⌊	**Ba**	**137**	**0.055**	ug/L	0.004	7	41	360	5	Standard
⌈>	**Tb**	**159**		ug/L			1329710	1258276	0	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.001	61	142	89	30	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.000	3	128	579	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0371-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 00:17:09
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	989708	1	Standard
	Be	9	0.215	ug/L	0.021	9	12	1210	10	Standard
	C	13		ug/L			20697	41735	1	Standard
	Cl	37		ug/L			4547517	4783509	0	Standard
>	Sc	45		ug/L			1022646	1130305	1	Standard
	V	51	25.106	ug/L	0.403	1	5911	546815	1	Standard
	V-1	51	24.996	ug/L	0.498	1	123	548221	1	Standard
	Cr	52	22.130	ug/L	0.270	1	17431	428995	2	Standard
	Cr	53	21.956	ug/L	0.345	1	118	48926	1	Standard
>	Ge	72		ug/L			29123	28502	10	KED
	Ni	60	23.530	ug/L	2.536	10	6	14185	2	KED
	Ni	62	23.766	ug/L	3.083	12	5	2409	1	KED
	Cu	63	11.113	ug/L	1.394	12	29	20418	1	KED
	Cu	65	11.466	ug/L	1.632	14	19	10246	2	KED
	Zn	66	21.791	ug/L	2.448	11	22	4436	0	KED
	Zn	67	25.072	ug/L	4.002	15	5	861	6	KED
	As	75	3.242	ug/L	0.396	12	4	333	4	KED
	Se	78	1.246	ug/L	0.238	19	6	18	11	KED
	Y	89		ug/L			576124	751166	1	Standard
	Kr	83		ug/L			33	93	10	Standard
>	In-1	115		ug/L			8648	8475	3	KED
	Cd	111	0.100	ug/L	0.031	31	1	14	30	KED
	Cd	114	0.125	ug/L	0.036	28	2	43	28	KED
>	In	115		ug/L			886165	857859	0	Standard
	Ag	107	0.060	ug/L	0.002	3	59	881	3	Standard
	Sb	121	-0.002	ug/L	0.001	69	164	136	12	Standard
	Sb	123	-0.003	ug/L	0.002	67	136	104	17	Standard
	Ba	135	50.728	ug/L	0.333	0	19	175969	1	Standard
	Ba	137	49.789	ug/L	0.416	0	41	300421	1	Standard
>	Tb	159		ug/L			1329710	1346599	2	Standard
	Tl	205	0.066	ug/L	0.001	2	142	2190	1	Standard
	Pb	208	2.766	ug/L	0.094	3	128	110784	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0038-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 00:22:02
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	974113	1	Standard
	Be	9	0.204	ug/L	0.006	3	12	1131	4	Standard
	C	13		ug/L			20697	37006	1	Standard
	Cl	37		ug/L			4547517	4684900	0	Standard
>	Sc	45		ug/L			1022646	1103824	1	Standard
	V	51	25.887	ug/L	0.444	1	5911	550428	2	Standard
	V-1	51	25.630	ug/L	0.450	1	123	548997	2	Standard
	Cr	52	22.037	ug/L	0.058	0	17431	417200	1	Standard
	Cr	53	21.451	ug/L	0.087	0	118	46686	1	Standard
>	Ge	72		ug/L			29123	23313	20	KED
	Ni	60	22.954	ug/L	1.290	5	6	11320	15	KED
	Ni	62	23.380	ug/L	1.370	5	5	1941	14	KED
	Cu	63	12.732	ug/L	1.308	10	29	19030	10	KED
	Cu	65	13.281	ug/L	1.358	10	19	9667	10	KED
	Zn	66	21.775	ug/L	1.052	4	22	3634	16	KED
	Zn	67	26.032	ug/L	1.155	4	5	737	18	KED
	As	75	3.162	ug/L	0.115	3	4	267	17	KED
	Se	78	1.476	ug/L	0.651	44	6	16	12	KED
	Y	89		ug/L			576124	733864	3	Standard
	Kr	83		ug/L			33	92	1	Standard
>	In-1	115		ug/L			8648	8591	0	KED
	Cd	111	0.143	ug/L	0.038	26	1	20	24	KED
	Cd	114	0.125	ug/L	0.028	22	2	44	21	KED
>	In	115		ug/L			886165	847279	0	Standard
	Ag	107	0.058	ug/L	0.003	5	59	843	5	Standard
	Sb	121	-0.002	ug/L	0.002	98	164	134	16	Standard
	Sb	123	-0.004	ug/L	0.002	45	136	98	14	Standard
	Ba	135	49.465	ug/L	0.409	0	19	169474	1	Standard
	Ba	137	49.568	ug/L	0.475	0	41	295394	1	Standard
>	Tb	159		ug/L			1329710	1332838	1	Standard
	Tl	205	0.069	ug/L	0.004	6	142	2242	4	Standard
	Pb	208	2.781	ug/L	0.077	2	128	110284	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0038-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 00:25:56
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	967411	3	Standard
	Be	9	24.739	ug/L	0.753	3	12	134459	0	Standard
	C	13		ug/L			20697	36561	2	Standard
	Cl	37		ug/L			4547517	4650407	2	Standard
>	Sc	45		ug/L			1022646	1102068	1	Standard
	V	51	50.576	ug/L	0.880	1	5911	1067769	3	Standard
	V-1	51	50.440	ug/L	0.755	1	123	1078746	2	Standard
	Cr	52	45.090	ug/L	0.392	0	17431	832651	1	Standard
	Cr	53	44.983	ug/L	0.363	0	118	97599	1	Standard
>	Ge	72		ug/L			29123	23462	20	KED
	Ni	60	52.409	ug/L	3.753	7	6	25947	13	KED
	Ni	62	50.958	ug/L	3.501	6	5	4248	13	KED
	Cu	63	37.211	ug/L	3.574	9	29	55992	11	KED
	Cu	65	39.595	ug/L	2.783	7	19	29125	14	KED
	Zn	66	100.358	ug/L	3.040	3	22	16849	18	KED
	Zn	67	98.090	ug/L	2.738	2	5	2784	18	KED
	As	75	27.316	ug/L	0.222	0	4	2300	19	KED
	Se	78	71.640	ug/L	5.121	7	6	597	27	KED
	Y	89		ug/L			576124	747428	2	Standard
	Kr	83		ug/L			33	88	6	Standard
>	In-1	115		ug/L			8648	8299	0	KED
	Cd	111	24.746	ug/L	0.700	2	1	3240	2	KED
	Cd	114	25.311	ug/L	0.927	3	2	8243	3	KED
>	In	115		ug/L			886165	832447	0	Standard
	Ag	107	23.696	ug/L	0.106	0	59	314159	0	Standard
	Sb	121	0.747	ug/L	0.022	2	164	8008	3	Standard
	Sb	123	0.730	ug/L	0.014	1	136	6006	2	Standard
	Ba	135	79.309	ug/L	1.082	1	19	266961	1	Standard
	Ba	137	79.128	ug/L	1.421	1	41	463287	2	Standard
>	Tb	159		ug/L			1329710	1305018	1	Standard
	Tl	205	23.466	ug/L	0.543	2	142	701454	1	Standard
	Pb	208	26.931	ug/L	0.354	1	128	1044670	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0038-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 00:30:13
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	974352	0	Standard
	Be	9	24.391	ug/L	0.389	1	12	133611	1	Standard
	C	13		ug/L			20697	36694	1	Standard
	Cl	37		ug/L			4547517	4712490	0	Standard
>	Sc	45		ug/L			1022646	1110140	0	Standard
	V	51	50.152	ug/L	0.385	0	5911	1066537	1	Standard
	V-1	51	49.874	ug/L	0.369	0	123	1074393	1	Standard
	Cr	52	45.046	ug/L	0.530	1	17431	838010	2	Standard
	Cr	53	44.470	ug/L	0.541	1	118	97207	1	Standard
>	Ge	72		ug/L			29123	23256	20	KED
	Ni	60	48.579	ug/L	3.425	7	6	23849	13	KED
	Ni	62	48.741	ug/L	3.341	6	5	4029	13	KED
	Cu	63	38.496	ug/L	3.056	7	29	57555	12	KED
	Cu	65	39.521	ug/L	2.891	7	19	28790	12	KED
	Zn	66	101.204	ug/L	1.221	1	22	16858	19	KED
	Zn	67	98.310	ug/L	1.077	1	5	2776	20	KED
	As	75	27.172	ug/L	0.409	1	4	2272	20	KED
	Se	78	69.864	ug/L	6.309	9	6	579	29	KED
	Y	89		ug/L			576124	733788	1	Standard
	Kr	83		ug/L			33	91	16	Standard
>	In-1	115		ug/L			8648	8305	2	KED
	Cd	111	24.864	ug/L	0.752	3	1	3256	0	KED
	Cd	114	24.593	ug/L	0.673	2	2	8013	1	KED
>	In	115		ug/L			886165	831761	0	Standard
	Ag	107	23.804	ug/L	0.117	0	59	315335	1	Standard
	Sb	121	0.881	ug/L	0.018	2	164	9411	2	Standard
	Sb	123	0.872	ug/L	0.024	2	136	7137	3	Standard
	Ba	135	77.364	ug/L	0.418	0	19	260186	0	Standard
	Ba	137	77.021	ug/L	0.100	0	41	450564	0	Standard
>	Tb	159		ug/L			1329710	1310140	1	Standard
	Tl	205	23.506	ug/L	0.517	2	142	705330	0	Standard
	Pb	208	26.712	ug/L	0.568	2	128	1040073	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 00:35:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			968314	916179	1	Standard
	Be	**9**	**-0.000**	ug/L	0.001	148	12	10	28	Standard
	C	**13**		ug/L			20697	21465	2	Standard
	Cl	**37**		ug/L			4547517	4520030	2	Standard
>	**Sc**	**45**		ug/L			1022646	982214	2	Standard
	V	**51**	**-0.019**	ug/L	0.004	18	5911	5323	1	Standard
	V-1	**51**	**-0.001**	ug/L	0.000	14	123	105	0	Standard
	Cr	**52**	**-0.062**	ug/L	0.013	21	17431	15744	1	Standard
	Cr	**53**	**-0.002**	ug/L	0.007	356	118	110	12	Standard
>	**Ge**	**72**		ug/L			29123	21882	23	KED
	Ni	**60**	**0.047**	ug/L	0.018	38	6	26	21	KED
	Ni	**62**	**0.016**	ug/L	0.034	214	5	5	57	KED
	Cu	**63**	**0.261**	ug/L	0.052	19	29	381	6	KED
	Cu	**65**	**0.229**	ug/L	0.047	20	19	170	19	KED
	Zn	**66**	**0.787**	ug/L	0.134	16	22	138	16	KED
	Zn	**67**	**0.689**	ug/L	0.233	33	5	22	34	KED
	As	**75**	**0.004**	ug/L	0.007	206	4	3	24	KED
	Se	**78**	**-0.028**	ug/L	0.144	507	6	4	36	KED
	Y	**89**		ug/L			576124	527138	2	Standard
	Kr	**83**		ug/L			33	29	3	Standard
>	**In-1**	**115**		ug/L			8648	8272	1	KED
	Cd	**111**	**0.003**	ug/L	0.007	245	1	1	50	KED
	Cd	**114**	**0.008**	ug/L	0.009	116	2	4	58	KED
>	**In**	**115**		ug/L			886165	813598	0	Standard
	Ag	**107**	**0.000**	ug/L	0.001	346	59	56	13	Standard
	Sb	**121**	**-0.009**	ug/L	0.001	8	164	59	14	Standard
	Sb	**123**	**-0.010**	ug/L	0.000	3	136	47	6	Standard
	Ba	**135**	**0.059**	ug/L	0.006	9	19	213	9	Standard
	Ba	**137**	**0.054**	ug/L	0.001	1	41	346	1	Standard
>	**Tb**	**159**		ug/L			1329710	1241170	3	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	17	142	85	9	Standard
	Pb	**208**	**0.012**	ug/L	0.001	5	128	577	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 00:39:26
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			968314	898444	2	Standard
	Be	**9**	**49.109**	ug/L	2.305	4	12	247842	2	Standard
	C	**13**		ug/L			20697	20770	2	Standard
	Cl	**37**		ug/L			4547517	4711256	2	Standard
>	**Sc**	**45**		ug/L			1022646	986313	0	Standard
	V	**51**	**48.402**	ug/L	0.257	0	5911	914695	1	Standard
	V-1	**51**	**48.373**	ug/L	0.371	0	123	925821	1	Standard
	Cr	**52**	**47.868**	ug/L	0.310	0	17431	790087	1	Standard
	Cr	**53**	**47.808**	ug/L	0.324	0	118	92838	1	Standard
>	**Ge**	**72**		ug/L			29123	22213	22	KED
	Ni	**60**	**51.592**	ug/L	5.269	10	6	24049	12	KED
	Ni	**62**	**51.236**	ug/L	5.082	9	5	4022	12	KED
	Cu	**63**	**51.337**	ug/L	5.089	9	29	73013	12	KED
	Cu	**65**	**52.041**	ug/L	4.522	8	19	36091	13	KED
	Zn	**66**	**48.409**	ug/L	1.564	3	22	7693	20	KED
	Zn	**67**	**50.709**	ug/L	2.190	4	5	1363	19	KED
	As	**75**	**49.652**	ug/L	1.551	3	4	3941	19	KED
	Se	**78**	**44.354**	ug/L	3.740	8	6	353	31	KED
	Y	**89**		ug/L			576124	539318	1	Standard
	Kr	**83**		ug/L			33	35	44	Standard
>	**In-1**	**115**		ug/L			8648	8267	0	KED
	Cd	**111**	**46.842**	ug/L	0.788	1	1	6108	0	KED
	Cd	**114**	**47.442**	ug/L	0.755	1	2	15391	2	KED
>	**In**	**115**		ug/L			886165	802779	2	Standard
	Ag	**107**	**47.951**	ug/L	0.515	1	59	612913	1	Standard
	Sb	**121**	**50.064**	ug/L	0.850	1	164	507873	0	Standard
	Sb	**123**	**50.294**	ug/L	0.985	1	136	390393	0	Standard
	Ba	**135**	**51.074**	ug/L	1.549	3	19	165731	1	Standard
	Ba	**137**	**51.525**	ug/L	1.878	3	41	290771	1	Standard
>	**Tb**	**159**		ug/L			1329710	1260903	1	Standard
	Tl	**205**	**44.863**	ug/L	1.393	3	142	1295370	1	Standard
	Pb	**208**	**45.790**	ug/L	1.311	2	128	1715698	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 00:46:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			968314	884939	1	Standard
	Be	**9**	**-0.000**	ug/L	0.001	228	12	9	52	Standard
	C	**13**		ug/L			20697	20640	2	Standard
	Cl	**37**		ug/L			4547517	4536486	2	Standard
>	**Sc**	**45**		ug/L			1022646	955423	1	Standard
	V	**51**	**-0.013**	ug/L	0.003	26	5911	5290	2	Standard
	V-1	**51**	**-0.002**	ug/L	0.001	36	123	78	18	Standard
	Cr	**52**	**-0.038**	ug/L	0.014	36	17431	15685	1	Standard
	Cr	**53**	**-0.003**	ug/L	0.009	353	118	105	15	Standard
>	**Ge**	**72**		ug/L			29123	20879	19	KED
	Ni	**60**	**0.002**	ug/L	0.005	273	6	5	33	KED
	Ni	**62**	**0.003**	ug/L	0.028	980	5	3	50	KED
	Cu	**63**	**0.001**	ug/L	0.006	996	29	20	24	KED
	Cu	**65**	**-0.001**	ug/L	0.003	211	19	13	28	KED
	Zn	**66**	**0.024**	ug/L	0.041	171	22	19	27	KED
	Zn	**67**	**0.060**	ug/L	0.051	86	5	5	21	KED
	As	**75**	**0.011**	ug/L	0.011	100	4	4	11	KED
	Se	**78**	**-0.058**	ug/L	0.195	332	6	4	54	KED
	Y	**89**		ug/L			576124	528613	2	Standard
	Kr	**83**		ug/L			33	27	14	Standard
>	**In-1**	**115**		ug/L			8648	7993	0	KED
	Cd	**111**	**0.001**	ug/L	0.016	1601	1	1	124	KED
	Cd	**114**	**0.001**	ug/L	0.004	739	2	2	46	KED
>	**In**	**115**		ug/L			886165	804474	1	Standard
	Ag	**107**	**0.001**	ug/L	0.001	127	59	62	16	Standard
	Sb	**121**	**0.028**	ug/L	0.003	10	164	429	6	Standard
	Sb	**123**	**0.028**	ug/L	0.003	11	136	342	6	Standard
	Ba	**135**	**0.003**	ug/L	0.003	93	19	27	32	Standard
	Ba	**137**	**0.001**	ug/L	0.001	153	41	42	16	Standard
>	**Tb**	**159**		ug/L			1329710	1210611	0	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	23	142	98	7	Standard
	Pb	**208**	**0.000**	ug/L	0.001	133	128	133	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0051-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 00:49:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	899136	3	Standard
	Be	9	-0.000	ug/L	0.001	313	12	10	26	Standard
	C	13		ug/L			20697	29355	3	Standard
	Cl	37		ug/L			4547517	4535715	0	Standard
>	Sc	45		ug/L			1022646	976683	3	Standard
	V	51	-0.001	ug/L	0.003	308	5911	5627	2	Standard
	V-1	51	0.004	ug/L	0.000	6	123	189	5	Standard
	Cr	52	0.031	ug/L	0.020	65	17431	17136	1	Standard
	Cr	53	0.044	ug/L	0.010	23	118	197	6	Standard
>	Ge	72		ug/L			29123	22081	21	KED
	Ni	60	0.004	ug/L	0.005	117	6	7	50	KED
	Ni	62	-0.014	ug/L	0.022	155	5	2	43	KED
	Cu	63	0.017	ug/L	0.015	92	29	43	28	KED
	Cu	65	0.002	ug/L	0.007	312	19	15	18	KED
	Zn	66	0.169	ug/L	0.022	12	22	44	27	KED
	Zn	67	0.226	ug/L	0.254	112	5	10	79	KED
	As	75	0.007	ug/L	0.012	182	4	4	6	KED
	Se	78	-0.062	ug/L	0.188	305	6	4	50	KED
	Y	89		ug/L			576124	526958	1	Standard
	Kr	83		ug/L			33	35	21	Standard
>	In-1	115		ug/L			8648	8120	1	KED
	Cd	111	0.011	ug/L	0.013	123	1	2	57	KED
	Cd	114	0.008	ug/L	0.007	82	2	4	44	KED
>	In	115		ug/L			886165	818150	0	Standard
	Ag	107	-0.001	ug/L	0.001	55	59	36	27	Standard
	Sb	121	0.003	ug/L	0.001	21	164	186	3	Standard
	Sb	123	0.000	ug/L	0.001	556	136	127	7	Standard
	Ba	135	0.006	ug/L	0.004	63	19	36	31	Standard
	Ba	137	0.005	ug/L	0.001	19	41	67	8	Standard
>	Tb	159		ug/L			1329710	1213788	0	Standard
	Tl	205	-0.002	ug/L	0.000	17	142	71	13	Standard
	Pb	208	0.001	ug/L	0.000	84	128	137	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0051-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 00:53:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	907088	1	Standard
	Be	9	24.036	ug/L	0.602	2	12	122537	0	Standard
	C	13		ug/L			20697	33455	2	Standard
	Cl	37		ug/L			4547517	4699338	1	Standard
>	Sc	45		ug/L			1022646	984965	0	Standard
	V	51	25.243	ug/L	0.422	1	5911	479097	1	Standard
	V-1	51	25.167	ug/L	0.379	1	123	481067	1	Standard
	Cr	52	24.696	ug/L	0.399	1	17431	415183	1	Standard
	Cr	53	24.489	ug/L	0.484	1	118	47545	2	Standard
>	Ge	72		ug/L			29123	21494	22	KED
	Ni	60	26.490	ug/L	2.431	9	6	11970	13	KED
	Ni	62	26.191	ug/L	1.510	5	5	2005	17	KED
	Cu	63	26.510	ug/L	2.272	8	29	36565	14	KED
	Cu	65	27.025	ug/L	2.608	9	19	18117	12	KED
	Zn	66	80.967	ug/L	4.952	6	22	12374	16	KED
	Zn	67	75.230	ug/L	5.279	7	5	1943	15	KED
	As	75	25.388	ug/L	0.348	1	4	1957	21	KED
	Se	78	74.854	ug/L	4.145	5	6	569	27	KED
	Y	89		ug/L			576124	534121	1	Standard
	Kr	83		ug/L			33	39	12	Standard
>	In-1	115		ug/L			8648	7817	2	KED
	Cd	111	24.234	ug/L	0.461	1	1	2988	0	KED
	Cd	114	24.297	ug/L	0.429	1	2	7455	3	KED
>	In	115		ug/L			886165	813762	1	Standard
	Ag	107	23.549	ug/L	0.209	0	59	305184	1	Standard
	Sb	121	-0.000	ug/L	0.002	891	164	149	11	Standard
	Sb	123	-0.001	ug/L	0.001	112	136	116	7	Standard
	Ba	135	25.755	ug/L	0.370	1	19	84748	0	Standard
	Ba	137	25.602	ug/L	0.357	1	41	146535	0	Standard
>	Tb	159		ug/L			1329710	1232214	0	Standard
	Tl	205	23.235	ug/L	0.689	2	142	655831	2	Standard
	Pb	208	23.883	ug/L	0.362	1	128	874748	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0309-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 00:57:46

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			968314	917546	3	Standard
⌊	**Be**	**9**	**0.006**	ug/L	0.002	31	12	43	21	Standard
	C	**13**		ug/L			20697	36576	1	Standard
	Cl	**37**		ug/L			4547517	4388728	0	Standard
⌈>	**Sc**	**45**		ug/L			1022646	995936	1	Standard
|	**V**	**51**	**1.417**	ug/L	0.026	1	5911	32637	2	Standard
|	**V-1**	**51**	**1.428**	ug/L	0.023	1	123	27713	2	Standard
|	**Cr**	**52**	**0.453**	ug/L	0.019	4	17431	24358	1	Standard
⌊	**Cr**	**53**	**0.542**	ug/L	0.006	1	118	1177	1	Standard
⌈>	**Ge**	**72**		ug/L			29123	22509	19	KED
|	**Ni**	**60**	**0.307**	ug/L	0.033	10	6	151	13	KED
|	**Ni**	**62**	**0.273**	ug/L	0.075	27	5	25	15	KED
|	**Cu**	**63**	**1.065**	ug/L	0.094	8	29	1561	11	KED
|	**Cu**	**65**	**1.103**	ug/L	0.094	8	19	792	12	KED
|	**Zn**	**66**	**2.211**	ug/L	0.176	7	22	375	22	KED
|	**Zn**	**67**	**2.370**	ug/L	0.251	10	5	69	26	KED
|	**As**	**75**	**0.756**	ug/L	0.081	10	4	65	25	KED
⌊	**Se**	**78**	**0.009**	ug/L	0.043	474	6	4	14	KED
	Y	**89**		ug/L			576124	534715	1	Standard
	Kr	**83**		ug/L			33	24	15	Standard
⌈>	**In-1**	**115**		ug/L			8648	7873	1	KED
|	**Cd**	**111**	**0.014**	ug/L	0.012	84	1	3	45	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.006	323	2	1	107	KED
⌈>	**In**	**115**		ug/L			886165	790978	1	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	32	59	80	11	Standard
|	**Sb**	**121**	**0.045**	ug/L	0.003	6	164	596	5	Standard
|	**Sb**	**123**	**0.042**	ug/L	0.001	1	136	441	0	Standard
|	**Ba**	**135**	**3.505**	ug/L	0.003	0	19	11225	1	Standard
⌊	**Ba**	**137**	**3.536**	ug/L	0.057	1	41	19708	2	Standard
⌈>	**Tb**	**159**		ug/L			1329710	1211996	1	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.001	20	142	239	11	Standard
⌊	**Pb**	**208**	**0.083**	ug/L	0.003	3	128	3089	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0309-03
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, June 03, 2022 01:01:39
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			968314	910154	2	Standard
	Be	**9**	**0.007**	ug/L	0.001	18	12	46	15	Standard
	C	**13**		ug/L			20697	36876	1	Standard
	Cl	**37**		ug/L			4547517	4372426	0	Standard
>	**Sc**	**45**		ug/L			1022646	1000773	1	Standard
	V	**51**	**1.311**	ug/L	0.020	1	5911	30769	2	Standard
	V-1	**51**	**1.318**	ug/L	0.015	1	123	25722	2	Standard
	Cr	**52**	**0.262**	ug/L	0.011	4	17431	21344	1	Standard
	Cr	**53**	**0.346**	ug/L	0.012	3	118	797	3	Standard
>	**Ge**	**72**		ug/L			29123	22349	20	KED
	Ni	**60**	**0.289**	ug/L	0.043	14	6	140	10	KED
	Ni	**62**	**0.259**	ug/L	0.138	53	5	24	46	KED
	Cu	**63**	**1.046**	ug/L	0.086	8	29	1523	12	KED
	Cu	**65**	**1.048**	ug/L	0.068	6	19	749	13	KED
	Zn	**66**	**0.924**	ug/L	0.121	13	22	166	24	KED
	Zn	**67**	**1.080**	ug/L	0.543	50	5	34	57	KED
	As	**75**	**0.769**	ug/L	0.017	2	4	65	18	KED
	Se	**78**	**0.147**	ug/L	0.363	247	6	6	59	KED
	Y	**89**		ug/L			576124	525873	1	Standard
	Kr	**83**		ug/L			33	35	18	Standard
>	**In-1**	**115**		ug/L			8648	8147	2	KED
	Cd	**111**	**0.016**	ug/L	0.012	73	1	3	41	KED
	Cd	**114**	**0.008**	ug/L	0.010	114	2	4	59	KED
>	**In**	**115**		ug/L			886165	800911	1	Standard
	Ag	**107**	**0.001**	ug/L	0.001	79	59	70	20	Standard
	Sb	**121**	**0.039**	ug/L	0.005	13	164	542	9	Standard
	Sb	**123**	**0.035**	ug/L	0.001	2	136	397	1	Standard
	Ba	**135**	**3.244**	ug/L	0.011	0	19	10522	1	Standard
	Ba	**137**	**3.243**	ug/L	0.078	2	41	18297	1	Standard
>	**Tb**	**159**		ug/L			1329710	1238869	3	Standard
	Tl	**205**	**0.003**	ug/L	0.001	28	142	225	8	Standard
	Pb	**208**	**0.073**	ug/L	0.002	2	128	2824	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0309-05
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 01:05:33

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			968314	893985	3	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	87	12	19	36	Standard
	C	**13**		ug/L			20697	29695	2	Standard
	Cl	**37**		ug/L			4547517	4465725	1	Standard
⌈>	**Sc**	**45**		ug/L			1022646	936821	0	Standard
⌈	**V**	**51**	**0.006**	ug/L	0.005	93	5911	5516	2	Standard
⌈	**V-1**	**51**	**0.015**	ug/L	0.001	9	123	386	7	Standard
⌈	**Cr**	**52**	**0.127**	ug/L	0.016	12	17431	17913	2	Standard
⌊	**Cr**	**53**	**0.149**	ug/L	0.017	11	118	383	8	Standard
⌈>	**Ge**	**72**		ug/L			29123	21874	20	KED
⌈	**Ni**	**60**	**0.016**	ug/L	0.003	17	6	12	17	KED
⌈	**Ni**	**62**	**0.045**	ug/L	0.031	68	5	6	15	KED
⌈	**Cu**	**63**	**0.236**	ug/L	0.038	15	29	351	12	KED
⌈	**Cu**	**65**	**0.242**	ug/L	0.046	18	19	177	4	KED
⌈	**Zn**	**66**	**0.367**	ug/L	0.167	45	22	71	17	KED
⌈	**Zn**	**67**	**0.339**	ug/L	0.213	62	5	13	62	KED
⌈	**As**	**75**	**0.058**	ug/L	0.019	33	4	8	36	KED
⌊	**Se**	**78**	**-0.037**	ug/L	0.099	265	6	4	22	KED
	Y	**89**		ug/L			576124	513084	0	Standard
	Kr	**83**		ug/L			33	26	37	Standard
⌈>	**In-1**	**115**		ug/L			8648	7786	1	KED
⌈	**Cd**	**111**	**0.017**	ug/L	0.015	93	1	3	56	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.009	336	2	3	93	KED
⌈>	**In**	**115**		ug/L			886165	781174	0	Standard
⌈	**Ag**	**107**	**-0.000**	ug/L	0.001	492	59	50	17	Standard
⌈	**Sb**	**121**	**-0.002**	ug/L	0.002	90	164	125	13	Standard
⌈	**Sb**	**123**	**-0.002**	ug/L	0.002	93	136	103	14	Standard
⌈	**Ba**	**135**	**0.181**	ug/L	0.013	7	19	587	6	Standard
⌊	**Ba**	**137**	**0.178**	ug/L	0.011	6	41	1015	5	Standard
⌈>	**Tb**	**159**		ug/L			1329710	1187706	2	Standard
⌈	**Tl**	**205**	**-0.002**	ug/L	0.001	23	142	63	24	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.001	6	128	513	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0309-07
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, June 03, 2022 01:09:27
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	859860	4	Standard
	Be	9	0.009	ug/L	0.002	21	12	55	12	Standard
	C	13		ug/L			20697	43798	1	Standard
	Cl	37		ug/L			4547517	4365767	0	Standard
>	Sc	45		ug/L			1022646	953188	1	Standard
	V	51	1.228	ug/L	0.004	0	5911	27790	1	Standard
	V-1	51	1.278	ug/L	0.010	0	123	23754	0	Standard
	Cr	52	0.444	ug/L	0.020	4	17431	23182	2	Standard
	Cr	53	0.650	ug/L	0.008	1	118	1328	1	Standard
>	Ge	72		ug/L			29123	21223	18	KED
	Ni	60	0.856	ug/L	0.049	5	6	389	14	KED
	Ni	62	0.862	ug/L	0.199	23	5	67	13	KED
	Cu	63	3.181	ug/L	0.273	8	29	4361	10	KED
	Cu	65	3.308	ug/L	0.222	6	19	2216	11	KED
	Zn	66	2.136	ug/L	0.032	1	22	340	17	KED
	Zn	67	2.428	ug/L	0.251	10	5	65	9	KED
	As	75	0.996	ug/L	0.043	4	4	79	22	KED
	Se	78	0.283	ug/L	0.127	44	6	6	32	KED
	Y	89		ug/L			576124	523449	1	Standard
	Kr	83		ug/L			33	36	31	Standard
>	In-1	115		ug/L			8648	7720	2	KED
	Cd	111	0.020	ug/L	0.007	36	1	3	25	KED
	Cd	114	-0.001	ug/L	0.006	410	2	1	104	KED
>	In	115		ug/L			886165	777636	1	Standard
	Ag	107	0.004	ug/L	0.002	35	59	104	16	Standard
	Sb	121	0.087	ug/L	0.004	4	164	1002	3	Standard
	Sb	123	0.086	ug/L	0.008	9	136	763	6	Standard
	Ba	135	8.413	ug/L	0.226	2	19	26461	1	Standard
	Ba	137	8.393	ug/L	0.084	1	41	45932	0	Standard
>	Tb	159		ug/L			1329710	1185528	1	Standard
	Tl	205	0.006	ug/L	0.000	5	142	302	3	Standard
	Pb	208	0.119	ug/L	0.004	3	128	4292	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0312-08
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, June 03, 2022 01:13:20
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	867038	2	Standard
	Be	9	0.001	ug/L	0.001	59	12	16	17	Standard
	C	13		ug/L			20697	36295	2	Standard
	Cl	37		ug/L			4547517	4491181	0	Standard
>	Sc	45		ug/L			1022646	1000624	1	Standard
	V	51	1.502	ug/L	0.021	1	5911	34394	1	Standard
	V-1	51	1.663	ug/L	0.020	1	123	32397	2	Standard
	Cr	52	0.292	ug/L	0.020	6	17431	21844	1	Standard
	Cr	53	0.871	ug/L	0.016	1	118	1829	2	Standard
>	Ge	72		ug/L			29123	21137	20	KED
	Ni	60	0.464	ug/L	0.053	11	6	211	12	KED
	Ni	62	0.394	ug/L	0.138	35	5	33	29	KED
	Cu	63	0.466	ug/L	0.043	9	29	652	11	KED
	Cu	65	0.482	ug/L	0.047	9	19	332	11	KED
	Zn	66	1.249	ug/L	0.248	19	22	200	4	KED
	Zn	67	1.965	ug/L	0.352	17	5	55	36	KED
	As	75	0.805	ug/L	0.054	6	4	64	19	KED
	Se	78	0.249	ug/L	0.299	119	6	6	54	KED
	Y	89		ug/L			576124	508692	1	Standard
	Kr	83		ug/L			33	45	7	Standard
>	In-1	115		ug/L			8648	7550	4	KED
	Cd	111	0.004	ug/L	0.020	534	1	1	132	KED
	Cd	114	0.001	ug/L	0.007	1141	2	2	90	KED
>	In	115		ug/L			886165	755724	0	Standard
	Ag	107	-0.001	ug/L	0.001	61	59	39	16	Standard
	Sb	121	0.051	ug/L	0.003	4	164	629	3	Standard
	Sb	123	0.052	ug/L	0.005	10	136	496	7	Standard
	Ba	135	5.715	ug/L	0.066	1	19	17479	1	Standard
	Ba	137	5.719	ug/L	0.093	1	41	30428	1	Standard
>	Tb	159		ug/L			1329710	1181760	1	Standard
	Tl	205	0.002	ug/L	0.000	17	142	192	5	Standard
	Pb	208	0.025	ug/L	0.003	10	128	1004	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0308-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 01:18:38
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	860049	0	Standard
	Be	9	-0.001	ug/L	0.001	132	12	8	48	Standard
	C	13		ug/L			20697	50248	0	Standard
	Cl	37		ug/L			4547517	4222277	0	Standard
>	Sc	45		ug/L			1022646	923397	1	Standard
	V	51	0.077	ug/L	0.032	41	5911	6678	6	Standard
	V-1	51	0.093	ug/L	0.005	5	123	1775	3	Standard
	Cr	52	3.356	ug/L	0.133	3	17431	66472	1	Standard
	Cr	53	3.215	ug/L	0.060	1	118	5943	1	Standard
>	Ge	72		ug/L			29123	20413	21	KED
	Ni	60	1.190	ug/L	0.134	11	6	514	9	KED
	Ni	62	0.989	ug/L	0.131	13	5	74	14	KED
	Cu	63	1.580	ug/L	0.131	8	29	2096	15	KED
	Cu	65	1.766	ug/L	0.196	11	19	1142	16	KED
	Zn	66	101.961	ug/L	3.373	3	22	14862	17	KED
	Zn	67	90.379	ug/L	2.843	3	5	2233	18	KED
	As	75	0.030	ug/L	0.024	78	4	5	27	KED
	Se	78	0.282	ug/L	0.213	75	6	6	26	KED
	Y	89		ug/L			576124	517264	2	Standard
	Kr	83		ug/L			33	29	42	Standard
>	In-1	115		ug/L			8648	7693	1	KED
	Cd	111	0.611	ug/L	0.069	11	1	75	11	KED
	Cd	114	0.584	ug/L	0.048	8	2	178	6	KED
>	In	115		ug/L			886165	781137	1	Standard
	Ag	107	0.002	ug/L	0.000	10	59	82	2	Standard
	Sb	121	0.068	ug/L	0.003	3	164	817	2	Standard
	Sb	123	0.069	ug/L	0.010	14	136	641	11	Standard
	Ba	135	3.175	ug/L	0.096	3	19	10046	3	Standard
	Ba	137	3.259	ug/L	0.019	0	41	17936	0	Standard
>	Tb	159		ug/L			1329710	1184253	2	Standard
	Tl	205	-0.002	ug/L	0.000	24	142	83	10	Standard
	Pb	208	0.079	ug/L	0.003	4	128	2906	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0400-19
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 01:23:55

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	871668	3	Standard
	Be	9	0.019	ug/L	0.007	39	12	101	30	Standard
	C	13		ug/L			20697	28471	3	Standard
	Cl	37		ug/L			4547517	4354132	2	Standard
>	Sc	45		ug/L			1022646	967183	0	Standard
	V	51	0.230	ug/L	0.002	1	5911	9832	1	Standard
	V-1	51	0.250	ug/L	0.004	1	123	4816	1	Standard
	Cr	52	-0.015	ug/L	0.017	114	17431	16251	2	Standard
	Cr	53	0.063	ug/L	0.012	18	118	232	10	Standard
>	Ge	72		ug/L			29123	20296	24	KED
	Ni	60	0.197	ug/L	0.082	41	6	89	39	KED
	Ni	62	3.676	ug/L	0.849	23	5	261	4	KED
	Cu	63	10.200	ug/L	0.740	7	29	13318	16	KED
	Cu	65	12.257	ug/L	0.738	6	19	7804	17	KED
	Zn	66	397605.724	ug/L	14914.613	3	22	57490590	20	KED
	Zn	67	354754.654	ug/L	14782.490	4	5	8670983	19	KED
	As	75	0.019	ug/L	0.029	151	4	4	45	KED
	Se	78	0.234	ug/L	0.098	41	6	6	15	KED
	Y	89		ug/L			576124	532304	1	Standard
	Kr	83		ug/L			33	1080	2	Standard
>	In-1	115		ug/L			8648	7492	3	KED
	Cd	111	7.515	ug/L	0.392	5	1	888	4	KED
	Cd	114	7.556	ug/L	0.262	3	2	2221	1	KED
>	In	115		ug/L			886165	721210	0	Standard
	Ag	107	0.585	ug/L	0.010	1	59	6761	1	Standard
	Sb	121	0.797	ug/L	0.006	0	164	7400	1	Standard
	Sb	123	0.768	ug/L	0.010	1	136	5467	0	Standard
	Ba	135	0.202	ug/L	0.023	11	19	606	11	Standard
	Ba	137	0.204	ug/L	0.010	5	41	1068	5	Standard
>	Tb	159		ug/L			1329710	968238	2	Standard
	Tl	205	0.575	ug/L	0.016	2	142	12859	0	Standard
	Pb	208	0.196	ug/L	0.005	2	128	5734	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 01:29:14
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			968314	895040	1	Standard
	Be	**9**	**-0.000**	ug/L	0.001	224	12	9	52	Standard
	C	**13**		ug/L			20697	22520	3	Standard
	Cl	**37**		ug/L			4547517	4689027	3	Standard
>	**Sc**	**45**		ug/L			1022646	962492	0	Standard
	V	**51**	**-0.010**	ug/L	0.010	97	5911	5377	2	Standard
	V-1	**51**	**-0.000**	ug/L	0.001	101	123	106	8	Standard
	Cr	**52**	**-0.024**	ug/L	0.037	156	17431	16029	2	Standard
	Cr	**53**	**0.007**	ug/L	0.006	79	118	125	7	Standard
>	**Ge**	**72**		ug/L			29123	21359	22	KED
	Ni	**60**	**0.034**	ug/L	0.016	46	6	19	14	KED
	Ni	**62**	**0.046**	ug/L	0.084	183	5	7	100	KED
	Cu	**63**	**0.243**	ug/L	0.041	16	29	351	10	KED
	Cu	**65**	**0.282**	ug/L	0.030	10	19	203	18	KED
	Zn	**66**	**13.766**	ug/L	6.012	43	22	1996	23	KED
	Zn	**67**	**11.372**	ug/L	4.680	41	5	282	21	KED
	As	**75**	**0.024**	ug/L	0.019	79	4	5	9	KED
	Se	**78**	**0.156**	ug/L	0.084	53	6	5	27	KED
	Y	**89**		ug/L			576124	518830	0	Standard
	Kr	**83**		ug/L			33	32	15	Standard
>	**In-1**	**115**		ug/L			8648	7831	1	KED
	Cd	**111**	**0.001**	ug/L	0.012	982	1	1	91	KED
	Cd	**114**	**0.003**	ug/L	0.010	354	2	3	94	KED
>	**In**	**115**		ug/L			886165	799067	1	Standard
	Ag	**107**	**-0.001**	ug/L	0.000	36	59	38	13	Standard
	Sb	**121**	**-0.008**	ug/L	0.000	0	164	66	1	Standard
	Sb	**123**	**-0.011**	ug/L	0.001	11	136	41	24	Standard
	Ba	**135**	**0.062**	ug/L	0.009	14	19	217	14	Standard
	Ba	**137**	**0.055**	ug/L	0.003	5	41	347	6	Standard
>	**Tb**	**159**		ug/L			1329710	1197205	1	Standard
	Tl	**205**	**-0.002**	ug/L	0.001	33	142	64	32	Standard
	Pb	**208**	**0.013**	ug/L	0.000	1	128	562	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 01:33:08
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			968314	849215	3	Standard
	Be	9	48.693	ug/L	1.359	2	12	232376	3	Standard
	C	13		ug/L			20697	20578	4	Standard
	Cl	37		ug/L			4547517	4516739	1	Standard
>	Sc	45		ug/L			1022646	924421	4	Standard
	V	51	50.022	ug/L	0.632	1	5911	885558	3	Standard
	V-1	51	49.831	ug/L	0.748	1	123	893623	3	Standard
	Cr	52	48.889	ug/L	0.779	1	17431	755758	3	Standard
	Cr	53	48.354	ug/L	0.403	0	118	87980	3	Standard
>	Ge	72		ug/L			29123	20994	21	KED
	Ni	60	50.666	ug/L	5.700	11	6	22312	9	KED
	Ni	62	49.994	ug/L	5.663	11	5	3707	10	KED
	Cu	63	51.449	ug/L	5.031	9	29	69225	11	KED
	Cu	65	53.629	ug/L	5.172	9	19	35138	11	KED
	Zn	66	73.369	ug/L	33.193	45	22	11001	45	KED
	Zn	67	74.558	ug/L	31.574	42	5	1890	42	KED
	As	75	49.878	ug/L	1.270	2	4	3759	20	KED
	Se	78	46.372	ug/L	2.346	5	6	346	25	KED
	Y	89		ug/L			576124	514481	0	Standard
	Kr	83		ug/L			33	46	33	Standard
>	In-1	115		ug/L			8648	7565	0	KED
	Cd	111	47.980	ug/L	0.186	0	1	5725	0	KED
	Cd	114	48.943	ug/L	0.658	1	2	14527	0	KED
>	In	115		ug/L			886165	781153	0	Standard
	Ag	107	47.205	ug/L	0.575	1	59	587267	2	Standard
	Sb	121	49.082	ug/L	0.830	1	164	484561	0	Standard
	Sb	123	48.989	ug/L	0.507	1	136	370106	0	Standard
	Ba	135	49.742	ug/L	0.208	0	19	157119	1	Standard
	Ba	137	49.755	ug/L	0.491	0	41	273353	0	Standard
>	Tb	159		ug/L			1329710	1198672	1	Standard
	Tl	205	45.449	ug/L	1.013	2	142	1247607	0	Standard
	Pb	208	46.764	ug/L	0.580	1	128	1665992	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 01:39:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			968314	870889	1	Standard
	Be	**9**	**0.001**	ug/L	0.001	119	12	13	20	Standard
	C	**13**		ug/L			20697	19715	1	Standard
	Cl	**37**		ug/L			4547517	4558921	1	Standard
>	**Sc**	**45**		ug/L			1022646	919653	2	Standard
	V	**51**	**-0.005**	ug/L	0.004	88	5911	5229	3	Standard
	V-1	**51**	**-0.002**	ug/L	0.000	5	123	83	4	Standard
	Cr	**52**	**-0.023**	ug/L	0.019	83	17431	15336	3	Standard
	Cr	**53**	**-0.011**	ug/L	0.004	40	118	87	10	Standard
>	**Ge**	**72**		ug/L			29123	19870	20	KED
	Ni	**60**	**0.002**	ug/L	0.015	727	6	5	100	KED
	Ni	**62**	**-0.020**	ug/L	0.033	164	5	1	100	KED
	Cu	**63**	**0.001**	ug/L	0.001	108	29	20	18	KED
	Cu	**65**	**-0.001**	ug/L	0.007	561	19	12	37	KED
	Zn	**66**	**1.823**	ug/L	0.155	8	22	273	16	KED
	Zn	**67**	**1.765**	ug/L	0.839	47	5	44	32	KED
	As	**75**	**0.048**	ug/L	0.032	67	4	6	38	KED
	Se	**78**	**0.153**	ug/L	0.048	31	6	5	26	KED
	Y	**89**		ug/L			576124	504685	2	Standard
	Kr	**83**		ug/L			33	32	20	Standard
>	**In-1**	**115**		ug/L			8648	7709	0	KED
	Cd	**111**	**0.004**	ug/L	0.014	333	1	1	86	KED
	Cd	**114**	**0.013**	ug/L	0.004	26	2	6	17	KED
>	**In**	**115**		ug/L			886165	771574	1	Standard
	Ag	**107**	**0.000**	ug/L	0.000	228	59	53	10	Standard
	Sb	**121**	**0.032**	ug/L	0.004	11	164	455	9	Standard
	Sb	**123**	**0.026**	ug/L	0.005	19	136	310	13	Standard
	Ba	**135**	**-0.001**	ug/L	0.001	180	19	15	21	Standard
	Ba	**137**	**0.001**	ug/L	0.001	118	41	42	15	Standard
>	**Tb**	**159**		ug/L			1329710	1153374	2	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	23	142	81	12	Standard
	Pb	**208**	**0.001**	ug/L	0.001	77	128	145	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 01:43:40
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L				852592	0	Standard
⌊	Be	9		ug/L				11	50	Standard
	C	13		ug/L				20290	3	Standard
	Cl	37		ug/L				4547324	1	Standard
⌈>	Sc	45		ug/L				929603	2	Standard
|	V	51		ug/L				5265	1	Standard
|	V-1	51		ug/L				86	6	Standard
|	Cr	52		ug/L				15537	1	Standard
⌊	Cr	53		ug/L				99	0	Standard
⌈>	Ge	72		ug/L				20685	19	KED
|	Ni	60		ug/L				4	49	KED
|	Ni	62		ug/L				2	43	KED
|	Cu	63		ug/L				21	18	KED
|	Cu	65		ug/L				19	26	KED
|	Zn	66		ug/L				648	3	KED
|	Zn	67		ug/L				93	12	KED
|	As	75		ug/L				3	60	KED
⌊	Se	78		ug/L				4	20	KED
	Y	89		ug/L				505441	0	Standard
	Kr	83		ug/L				41	26	Standard
⌈>	In-1	115		ug/L				7591	1	KED
|	Cd	111		ug/L				3	41	KED
⌊	Cd	114		ug/L				3	126	KED
⌈>	In	115		ug/L				768427	0	Standard
|	Ag	107		ug/L				41	14	Standard
|	Sb	121		ug/L				149	3	Standard
|	Sb	123		ug/L				121	7	Standard
|	Ba	135		ug/L				19	26	Standard
⌊	Ba	137		ug/L				43	20	Standard
⌈>	Tb	159		ug/L				1165309	1	Standard
|	Tl	205		ug/L				59	25	Standard
⌊	Pb	208		ug/L				118	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 01:47:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			852592	789315	6	Standard
	Be	**9**	**52.141**	ug/L	2.508	4	11	230891	1	Standard
	C	**13**		ug/L			20290	19874	1	Standard
	Cl	**37**		ug/L			4547324	4502211	0	Standard
>	**Sc**	**45**		ug/L			929603	849569	7	Standard
	V	**51**	**52.167**	ug/L	4.575	8	5265	844922	0	Standard
	V-1	**51**	**51.835**	ug/L	4.728	9	86	850538	1	Standard
	Cr	**52**	**51.672**	ug/L	5.055	9	15537	729635	1	Standard
	Cr	**53**	**50.654**	ug/L	5.506	10	99	84244	3	Standard
>	**Ge**	**72**		ug/L			20685	20562	19	KED
	Ni	**60**	**49.259**	ug/L	4.422	8	4	21330	11	KED
	Ni	**62**	**48.342**	ug/L	4.403	9	2	3527	12	KED
	Cu	**63**	**50.375**	ug/L	4.570	9	21	66533	11	KED
	Cu	**65**	**52.356**	ug/L	3.581	6	19	33752	13	KED
	Zn	**66**	**45.341**	ug/L	1.009	2	648	7327	20	KED
	Zn	**67**	**45.816**	ug/L	1.975	4	93	1229	16	KED
	As	**75**	**50.615**	ug/L	1.020	2	3	3728	18	KED
	Se	**78**	**46.291**	ug/L	3.682	7	4	338	26	KED
	Y	**89**		ug/L			505441	474221	6	Standard
	Kr	**83**		ug/L			41	39	23	Standard
>	**In-1**	**115**		ug/L			7591	7466	2	KED
	Cd	**111**	**47.138**	ug/L	0.658	1	3	5554	2	KED
	Cd	**114**	**47.709**	ug/L	1.125	2	3	13977	2	KED
>	**In**	**115**		ug/L			768427	711579	6	Standard
	Ag	**107**	**49.682**	ug/L	2.876	5	41	561484	1	Standard
	Sb	**121**	**52.455**	ug/L	3.964	7	149	470141	0	Standard
	Sb	**123**	**53.079**	ug/L	4.356	8	121	363947	1	Standard
	Ba	**135**	**53.475**	ug/L	4.489	8	19	153273	1	Standard
	Ba	**137**	**53.383**	ug/L	4.488	8	43	266148	1	Standard
>	**Tb**	**159**		ug/L			1165309	1105365	6	Standard
	Tl	**205**	**47.358**	ug/L	2.923	6	59	1196098	0	Standard
	Pb	**208**	**48.969**	ug/L	3.483	7	118	1604354	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 01:54:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	809069	6	Standard
	Be	9	0.000	ug/L	0.001	3105	11	10	36	Standard
	C	13		ug/L			20290	19069	3	Standard
	Cl	37		ug/L			4547324	4455658	1	Standard
>	Sc	45		ug/L			929603	878464	6	Standard
	V	51	0.010	ug/L	0.022	214	5265	5133	0	Standard
	V-1	51	-0.000	ug/L	0.001	445	86	79	12	Standard
	Cr	52	0.032	ug/L	0.075	238	15537	15092	0	Standard
	Cr	53	-0.003	ug/L	0.004	127	99	89	1	Standard
>	Ge	72		ug/L			20685	19776	23	KED
	Ni	60	0.002	ug/L	0.002	140	4	5	43	KED
	Ni	62	-0.006	ug/L	0.006	90	2	1		KED
	Cu	63	0.000	ug/L	0.004	1098	21	21	43	KED
	Cu	65	-0.001	ug/L	0.013	1162	19	16	35	KED
	Zn	66	-3.337	ug/L	0.099	2	648	148	32	KED
	Zn	67	-2.837	ug/L	0.275	9	93	22	55	KED
	As	75	0.012	ug/L	0.014	119	3	4	40	KED
	Se	78	0.045	ug/L	0.205	458	4	4	27	KED
	Y	89		ug/L			505441	467608	7	Standard
	Kr	83		ug/L			41	38	37	Standard
>	In-1	115		ug/L			7591	7584	1	KED
	Cd	111	-0.011	ug/L	0.009	88	3	2	49	KED
	Cd	114	-0.007	ug/L	0.004	55	3	1	99	KED
>	In	115		ug/L			768427	724765	8	Standard
	Ag	107	0.001	ug/L	0.001	78	41	52	23	Standard
	Sb	121	0.037	ug/L	0.008	20	149	478	5	Standard
	Sb	123	0.032	ug/L	0.003	10	121	334	2	Standard
	Ba	135	0.001	ug/L	0.001	163	19	20	10	Standard
	Ba	137	-0.001	ug/L	0.003	538	43	36	33	Standard
>	Tb	159		ug/L			1165309	1087135	6	Standard
	Tl	205	0.001	ug/L	0.002	304	59	67	51	Standard
	Pb	208	0.001	ug/L	0.001	55	118	151	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0366-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 01:58:06
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	867355	2	Standard
	Be	9	0.189	ug/L	0.009	4	11	934	6	Standard
	C	13		ug/L			20290	29145	1	Standard
	Cl	37		ug/L			4547324	4565118	0	Standard
>	Sc	45		ug/L			929603	1005019	1	Standard
	V	51	26.131	ug/L	0.382	1	5265	505636	0	Standard
	V-1	51	26.002	ug/L	0.379	1	86	507021	0	Standard
	Cr	52	17.742	ug/L	0.270	1	15537	308786	0	Standard
	Cr	53	17.830	ug/L	0.463	2	99	35335	1	Standard
>	Ge	72		ug/L			20685	21080	21	KED
	Ni	60	23.061	ug/L	2.127	9	4	10223	12	KED
	Ni	62	22.531	ug/L	1.240	5	2	1692	16	KED
	Cu	63	12.172	ug/L	1.091	8	21	16473	12	KED
	Cu	65	12.548	ug/L	0.877	6	19	8298	14	KED
	Zn	66	21.752	ug/L	1.683	7	648	3909	15	KED
	Zn	67	23.628	ug/L	1.178	4	93	694	17	KED
	As	75	2.973	ug/L	0.018	0	3	228	21	KED
	Se	78	1.151	ug/L	0.499	43	4	13	35	KED
	Y	89		ug/L			505441	636194	2	Standard
	Kr	83		ug/L			41	76	18	Standard
>	In-1	115		ug/L			7591	7495	1	KED
	Cd	111	0.051	ug/L	0.034	66	3	9	43	KED
	Cd	114	0.071	ug/L	0.003	4	3	23	4	KED
>	In	115		ug/L			768427	765684	1	Standard
	Ag	107	0.041	ug/L	0.002	5	41	544	4	Standard
	Sb	121	0.009	ug/L	0.001	16	149	233	4	Standard
	Sb	123	0.006	ug/L	0.002	26	121	166	7	Standard
	Ba	135	39.123	ug/L	0.515	1	19	121126	1	Standard
	Ba	137	39.128	ug/L	0.470	1	43	210742	1	Standard
>	Tb	159		ug/L			1165309	1184042	1	Standard
	Tl	205	0.034	ug/L	0.002	4	59	969	4	Standard
	Pb	208	1.996	ug/L	0.055	2	118	70353	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0366-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 02:02:00
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			852592	846105	4	Standard
	Be	**9**	**0.253**	ug/L	0.007	2	11	1212	3	Standard
	C	**13**		ug/L			20290	29948	2	Standard
	Cl	**37**		ug/L			4547324	4464066	1	Standard
>	**Sc**	**45**		ug/L			929603	1001607	3	Standard
	V	**51**	**41.383**	ug/L	1.525	3	5265	794210	0	Standard
	V-1	**51**	**41.392**	ug/L	1.434	3	86	803812	0	Standard
	Cr	**52**	**42.217**	ug/L	2.146	5	15537	708495	1	Standard
	Cr	**53**	**42.197**	ug/L	1.926	4	99	83130	1	Standard
>	**Ge**	**72**		ug/L			20685	21222	21	KED
	Ni	**60**	**49.238**	ug/L	3.571	7	4	22040	14	KED
	Ni	**62**	**49.685**	ug/L	4.610	9	2	3733	12	KED
	Cu	**63**	**31.409**	ug/L	2.340	7	21	42867	13	KED
	Cu	**65**	**32.067**	ug/L	2.412	7	19	21311	13	KED
	Zn	**66**	**49.153**	ug/L	1.520	3	648	8108	18	KED
	Zn	**67**	**47.469**	ug/L	1.366	2	93	1312	18	KED
	As	**75**	**4.319**	ug/L	0.108	2	3	332	20	KED
	Se	**78**	**1.618**	ug/L	0.516	31	4	16	22	KED
	Y	**89**		ug/L			505441	659575	0	Standard
	Kr	**83**		ug/L			41	92	28	Standard
>	**In-1**	**115**		ug/L			7591	7490	1	KED
	Cd	**111**	**0.180**	ug/L	0.028	15	3	24	13	KED
	Cd	**114**	**0.146**	ug/L	0.030	20	3	45	18	KED
>	**In**	**115**		ug/L			768427	724450	2	Standard
	Ag	**107**	**0.095**	ug/L	0.002	2	41	1133	4	Standard
	Sb	**121**	**0.002**	ug/L	0.003	139	149	158	14	Standard
	Sb	**123**	**0.003**	ug/L	0.001	25	121	134	6	Standard
	Ba	**135**	**56.441**	ug/L	2.435	4	19	165230	2	Standard
	Ba	**137**	**56.283**	ug/L	1.699	3	43	286667	1	Standard
>	**Tb**	**159**		ug/L			1165309	1139703	1	Standard
	Tl	**205**	**0.084**	ug/L	0.004	5	59	2245	3	Standard
	Pb	**208**	**8.165**	ug/L	0.238	2	118	276601	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0366-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 02:05:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			852592	880600	4	Standard
⌊	Be	9	0.121	ug/L	0.012	9	11	608	5	Standard
	C	13		ug/L			20290	30058	0	Standard
	Cl	37		ug/L			4547324	4535561	1	Standard
⌈>	Sc	45		ug/L			929603	981565	1	Standard
	V	51	19.698	ug/L	0.182	0	5265	373688	1	Standard
	V-1	51	19.523	ug/L	0.137	0	86	371870	1	Standard
	Cr	52	15.546	ug/L	0.138	0	15537	266297	1	Standard
⌊	Cr	53	15.235	ug/L	0.037	0	99	29510	1	Standard
⌈>	Ge	72		ug/L			20685	21328	22	KED
	Ni	60	16.659	ug/L	1.345	8	4	7485	13	KED
	Ni	62	16.290	ug/L	1.310	8	2	1235	15	KED
	Cu	63	6.118	ug/L	0.579	9	21	8380	12	KED
	Cu	65	6.448	ug/L	0.477	7	19	4321	14	KED
	Zn	66	14.831	ug/L	1.320	8	648	2915	17	KED
	Zn	67	16.006	ug/L	1.378	8	93	506	16	KED
	As	75	3.094	ug/L	0.187	6	3	239	18	KED
⌊	Se	78	1.220	ug/L	0.330	27	4	13	15	KED
	Y	89		ug/L			505441	612793	1	Standard
	Kr	83		ug/L			41	65	11	Standard
⌈>	In-1	115		ug/L			7591	7404	1	KED
	Cd	111	0.162	ug/L	0.060	37	3	22	31	KED
⌊	Cd	114	0.152	ug/L	0.020	13	3	47	10	KED
⌈>	In	115		ug/L			768427	765250	1	Standard
	Ag	107	0.031	ug/L	0.001	3	41	424	4	Standard
	Sb	121	-0.002	ug/L	0.002	91	149	130	14	Standard
	Sb	123	-0.000	ug/L	0.002	682	121	118	10	Standard
	Ba	135	15.866	ug/L	0.161	1	19	49102	0	Standard
⌊	Ba	137	15.759	ug/L	0.094	0	43	84847	1	Standard
⌈>	Tb	159		ug/L			1165309	1184196	2	Standard
	Tl	205	0.115	ug/L	0.004	3	59	3164	2	Standard
⌊	Pb	208	1.341	ug/L	0.032	2	118	47288	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0366-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 02:09:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	884499	2	Standard
	Be	9	0.143	ug/L	0.010	6	11	723	6	Standard
	C	13		ug/L			20290	34527	1	Standard
	Cl	37		ug/L			4547324	4502944	0	Standard
>	Sc	45		ug/L			929603	973171	2	Standard
	V	51	19.032	ug/L	0.087	0	5265	358161	2	Standard
	V-1	51	19.238	ug/L	0.018	0	86	363325	2	Standard
	Cr	52	30.339	ug/L	0.723	2	15537	499667	0	Standard
	Cr	53	30.326	ug/L	0.766	2	99	58113	0	Standard
>	Ge	72		ug/L			20685	21771	20	KED
	Ni	60	22.921	ug/L	1.704	7	4	10535	13	KED
	Ni	62	23.204	ug/L	1.923	8	2	1793	11	KED
	Cu	63	287.405	ug/L	26.947	9	21	401377	10	KED
	Cu	65	298.971	ug/L	22.326	7	19	203766	12	KED
	Zn	66	331.202	ug/L	8.478	2	648	52191	17	KED
	Zn	67	308.480	ug/L	8.079	2	93	8215	17	KED
	As	75	44.045	ug/L	1.006	2	3	3444	20	KED
	Se	78	0.874	ug/L	0.701	80	4	11	47	KED
	Y	89		ug/L			505441	603037	1	Standard
	Kr	83		ug/L			41	52	10	Standard
>	In-1	115		ug/L			7591	7728	3	KED
	Cd	111	0.818	ug/L	0.035	4	3	103	1	KED
	Cd	114	0.654	ug/L	0.101	15	3	201	17	KED
>	In	115		ug/L			768427	787214	0	Standard
	Ag	107	0.388	ug/L	0.010	2	41	4911	2	Standard
	Sb	121	1.985	ug/L	0.032	1	149	19893	1	Standard
	Sb	123	1.975	ug/L	0.045	2	121	15159	1	Standard
	Ba	135	85.105	ug/L	1.458	1	19	270888	1	Standard
	Ba	137	85.699	ug/L	0.546	0	43	474473	0	Standard
>	Tb	159		ug/L			1165309	1169977	0	Standard
	Tl	205	0.070	ug/L	0.002	2	59	1948	2	Standard
	Pb	208	200.821	ug/L	2.262	1	118	6983283	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0366-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 02:13:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	889692	3	Standard
	Be	9	0.122	ug/L	0.006	5	11	620	8	Standard
	C	13		ug/L			20290	35550	1	Standard
	Cl	37		ug/L			4547324	4571160	2	Standard
>	Sc	45		ug/L			929603	969427	0	Standard
	V	51	17.772	ug/L	0.245	1	5265	333528	1	Standard
	V-1	51	17.911	ug/L	0.267	1	86	336978	1	Standard
	Cr	52	28.595	ug/L	0.146	0	15537	470218	1	Standard
	Cr	53	28.398	ug/L	0.224	0	99	54238	1	Standard
>	Ge	72		ug/L			20685	21284	19	KED
	Ni	60	23.865	ug/L	2.141	8	4	10702	10	KED
	Ni	62	25.364	ug/L	2.828	11	2	1915	11	KED
	Cu	63	472.253	ug/L	46.213	9	21	645073	10	KED
	Cu	65	490.841	ug/L	45.780	9	19	326454	10	KED
	Zn	66	372.396	ug/L	7.996	2	648	57350	17	KED
	Zn	67	358.661	ug/L	3.624	1	93	9338	18	KED
	As	75	34.628	ug/L	0.322	0	3	2649	19	KED
	Se	78	0.737	ug/L	0.323	43	4	10	30	KED
	Y	89		ug/L			505441	598745	1	Standard
	Kr	83		ug/L			41	45	26	Standard
>	In-1	115		ug/L			7591	7805	3	KED
	Cd	111	0.394	ug/L	0.073	18	3	52	17	KED
	Cd	114	0.433	ug/L	0.048	11	3	135	10	KED
>	In	115		ug/L			768427	790044	2	Standard
	Ag	107	0.220	ug/L	0.008	3	41	2804	1	Standard
	Sb	121	0.615	ug/L	0.011	1	149	6294	1	Standard
	Sb	123	0.611	ug/L	0.022	3	121	4786	1	Standard
	Ba	135	209.357	ug/L	5.391	2	19	668533	0	Standard
	Ba	137	207.488	ug/L	3.598	1	43	1152569	0	Standard
>	Tb	159		ug/L			1165309	1174484	2	Standard
	Tl	205	0.041	ug/L	0.003	7	59	1150	5	Standard
	Pb	208	618.709	ug/L	21.040	3	118	21586293	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0366-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 02:17:36

DEL

Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	823339	9	Standard
	Be	9	0.270	ug/L	0.036	13	11	1250	3	Standard
	C	13		ug/L			20290	30885	2	Standard
	Cl	37		ug/L			4547324	4413875	2	Standard
>	Sc	45		ug/L			929603	966900	7	Standard
	V	51	38.896	ug/L	2.475	6	5265	719149	1	Standard
	V-1	51	38.678	ug/L	2.609	6	86	723098	1	Standard
	Cr	52	34.333	ug/L	2.762	8	15537	557565	0	Standard
	Cr	53	33.914	ug/L	3.169	9	99	64267	1	Standard
>	Ge	72		ug/L			20685	20301	21	KED
	Ni	60	38.525	ug/L	4.324	11	4	16401	10	KED
	Ni	62	37.991	ug/L	4.526	11	2	2721	10	KED
	Cu	63	28.681	ug/L	2.962	10	21	37317	11	KED
	Cu	65	29.432	ug/L	2.840	9	19	18649	11	KED
	Zn	66	55.598	ug/L	3.709	6	648	8670	17	KED
	Zn	67	58.064	ug/L	1.984	3	93	1514	18	KED
	As	75	8.131	ug/L	0.436	5	3	591	16	KED
	Se	78	1.613	ug/L	0.129	7	4	16	27	KED
	Y	89		ug/L			505441	624393	5	Standard
	Kr	83		ug/L			41	87	18	Standard
>	In-1	115		ug/L			7591	7224	2	KED
	Cd	111	0.085	ug/L	0.021	24	3	13	16	KED
	Cd	114	0.111	ug/L	0.011	9	3	34	7	KED
>	In	115		ug/L			768427	703333	8	Standard
	Ag	107	0.063	ug/L	0.007	11	41	739	3	Standard
	Sb	121	0.006	ug/L	0.003	53	149	192	10	Standard
	Sb	123	0.005	ug/L	0.007	146	121	141	24	Standard
	Ba	135	72.980	ug/L	7.008	9	19	206436	0	Standard
	Ba	137	71.927	ug/L	6.011	8	43	354137	0	Standard
>	Tb	159		ug/L			1165309	1117893	8	Standard
	Tl	205	0.061	ug/L	0.006	10	59	1608	2	Standard
	Pb	208	21.017	ug/L	1.908	9	118	694771	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0366-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 02:21:29
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	866763	1	Standard
	Be	9	0.169	ug/L	0.003	1	11	833	2	Standard
	C	13		ug/L			20290	34043	1	Standard
	Cl	37		ug/L			4547324	4460878	0	Standard
>	Sc	45		ug/L			929603	981582	3	Standard
	V	51	25.284	ug/L	0.270	1	5265	477998	2	Standard
	V-1	51	25.053	ug/L	0.291	1	86	477089	2	Standard
	Cr	52	22.321	ug/L	0.368	1	15537	375128	1	Standard
	Cr	53	21.766	ug/L	0.431	1	99	42098	1	Standard
>	Ge	72		ug/L			20685	26138	1	KED
	Ni	60	23.169	ug/L	0.419	1	4	12908	2	KED
	Ni	62	22.396	ug/L	0.320	1	2	2101	1	KED
	Cu	63	120.717	ug/L	1.188	0	21	204997	1	KED
	Cu	65	124.881	ug/L	2.440	1	19	103239	2	KED
	Zn	66	287.044	ug/L	1.905	0	648	54588	1	KED
	Zn	67	267.351	ug/L	9.823	3	93	8591	4	KED
	As	75	27.049	ug/L	0.581	2	3	2541	2	KED
	Se	78	1.003	ug/L	0.384	38	4	15	24	KED
	Y	89		ug/L			505441	609178	2	Standard
	Kr	83		ug/L			41	77	26	Standard
>	In-1	115		ug/L			7591	7497	1	KED
	Cd	111	0.285	ug/L	0.065	22	3	37	20	KED
	Cd	114	0.308	ug/L	0.021	6	3	93	7	KED
>	In	115		ug/L			768427	754371	0	Standard
	Ag	107	0.115	ug/L	0.002	2	41	1425	2	Standard
	Sb	121	0.240	ug/L	0.007	2	149	2437	2	Standard
	Sb	123	0.253	ug/L	0.004	1	121	1963	2	Standard
	Ba	135	83.674	ug/L	0.495	0	19	255222	0	Standard
	Ba	137	82.853	ug/L	0.522	0	43	439583	1	Standard
>	Tb	159		ug/L			1165309	1168651	2	Standard
	Tl	205	0.058	ug/L	0.003	4	59	1599	2	Standard
	Pb	208	78.681	ug/L	2.322	2	118	2731884	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0366-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 02:26:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	909579	2	Standard
	Be	9	0.261	ug/L	0.012	4	11	1343	2	Standard
	C	13		ug/L			20290	31364	1	Standard
	Cl	37		ug/L			4547324	4514181	1	Standard
>	Sc	45		ug/L			929603	1042333	1	Standard
	V	51	38.757	ug/L	1.038	2	5265	775023	2	Standard
	V-1	51	38.463	ug/L	0.942	2	86	777852	2	Standard
	Cr	52	30.254	ug/L	0.753	2	15537	533824	2	Standard
	Cr	53	29.825	ug/L	0.686	2	99	61226	1	Standard
>	Ge	72		ug/L			20685	27036	1	KED
	Ni	60	31.184	ug/L	0.906	2	4	17966	2	KED
	Ni	62	31.692	ug/L	0.662	2	2	3073	1	KED
	Cu	63	88.138	ug/L	0.394	0	21	154833	1	KED
	Cu	65	91.107	ug/L	1.811	1	19	77901	0	KED
	Zn	66	206.913	ug/L	2.403	1	648	40935	0	KED
	Zn	67	196.797	ug/L	7.508	3	93	6571	2	KED
	As	75	13.544	ug/L	0.161	1	3	1318	0	KED
	Se	78	1.504	ug/L	0.063	4	4	20	3	KED
	Y	89		ug/L			505441	676799	1	Standard
	Kr	83		ug/L			41	82	20	Standard
>	In-1	115		ug/L			7591	7689	1	KED
	Cd	111	0.293	ug/L	0.021	7	3	39	8	KED
	Cd	114	0.330	ug/L	0.067	20	3	102	18	KED
>	In	115		ug/L			768427	763020	0	Standard
	Ag	107	0.100	ug/L	0.009	8	41	1261	7	Standard
	Sb	121	0.026	ug/L	0.009	32	149	399	20	Standard
	Sb	123	0.026	ug/L	0.007	26	121	311	15	Standard
	Ba	135	84.469	ug/L	1.458	1	19	260595	1	Standard
	Ba	137	84.643	ug/L	1.887	2	43	454197	1	Standard
>	Tb	159		ug/L			1165309	1197326	2	Standard
	Tl	205	0.071	ug/L	0.005	7	59	2005	9	Standard
	Pb	208	35.672	ug/L	1.100	3	118	1268927	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0371-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 02:33:04
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	895586	5	Standard
	Be	9	0.108	ug/L	0.001	0	11	558	4	Standard
	C	13		ug/L			20290	34495	0	Standard
	Cl	37		ug/L			4547324	4463822	0	Standard
>	Sc	45		ug/L			929603	1002631	1	Standard
	V	51	23.628	ug/L	0.164	0	5265	456757	2	Standard
	V-1	51	23.411	ug/L	0.073	0	86	455490	1	Standard
	Cr	52	21.553	ug/L	0.322	1	15537	370682	2	Standard
	Cr	53	20.990	ug/L	0.359	1	99	41481	0	Standard
>	Ge	72		ug/L			20685	26334	1	KED
	Ni	60	19.751	ug/L	0.275	1	4	11087	1	KED
	Ni	62	19.722	ug/L	1.056	5	2	1864	4	KED
	Cu	63	7.281	ug/L	0.232	3	21	12479	2	KED
	Cu	65	7.338	ug/L	0.065	0	19	6134	1	KED
	Zn	66	17.000	ug/L	0.588	3	648	4034	3	KED
	Zn	67	19.517	ug/L	2.501	12	93	742	11	KED
	As	75	2.480	ug/L	0.028	1	3	239	1	KED
	Se	78	0.957	ug/L	0.298	31	4	14	19	KED
	Y	89		ug/L			505441	608986	3	Standard
	Kr	83		ug/L			41	56	11	Standard
>	In-1	115		ug/L			7591	7462	0	KED
	Cd	111	0.009	ug/L	0.005	53	3	4	12	KED
	Cd	114	0.071	ug/L	0.027	38	3	23	32	KED
>	In	115		ug/L			768427	755240	1	Standard
	Ag	107	0.033	ug/L	0.002	4	41	433	5	Standard
	Sb	121	-0.007	ug/L	0.002	21	149	79	19	Standard
	Sb	123	-0.008	ug/L	0.000	5	121	62	3	Standard
	Ba	135	33.664	ug/L	0.158	0	19	102810	0	Standard
	Ba	137	33.436	ug/L	0.403	1	43	177648	2	Standard
>	Tb	159		ug/L			1165309	1182972	2	Standard
	Tl	205	0.025	ug/L	0.002	7	59	728	4	Standard
	Pb	208	1.157	ug/L	0.023	1	118	40793	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 02:38:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			852592	854409	1	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.001	574	11	10	36	Standard
	C	**13**		ug/L			20290	21199	1	Standard
	Cl	**37**		ug/L			4547324	4277790	1	Standard
⌈>	**Sc**	**45**		ug/L			929603	884472	2	Standard
|	**V**	**51**	**0.001**	ug/L	0.003	415	5265	5022	3	Standard
|	**V-1**	**51**	**-0.000**	ug/L	0.001	535	86	80	15	Standard
|	**Cr**	**52**	**0.017**	ug/L	0.005	29	15537	15032	2	Standard
⌊	**Cr**	**53**	**0.014**	ug/L	0.008	57	99	118	9	Standard
⌈>	**Ge**	**72**		ug/L			20685	24550	1	KED
|	**Ni**	**60**	**0.030**	ug/L	0.010	33	4	20	24	KED
|	**Ni**	**62**	**0.067**	ug/L	0.045	67	2	8	44	KED
|	**Cu**	**63**	**0.227**	ug/L	0.003	1	21	387	0	KED
|	**Cu**	**65**	**0.221**	ug/L	0.020	9	19	194	6	KED
|	**Zn**	**66**	**-2.835**	ug/L	0.214	7	648	270	13	KED
|	**Zn**	**67**	**-2.208**	ug/L	0.649	29	93	45	43	KED
|	**As**	**75**	**0.006**	ug/L	0.005	83	3	5	9	KED
⌊	**Se**	**78**	**-0.043**	ug/L	0.065	150	4	5	9	KED
	Y	**89**		ug/L			505441	478106	2	Standard
	Kr	**83**		ug/L			41	32	20	Standard
⌈>	**In-1**	**115**		ug/L			7591	6955	2	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.008	71	3	1	50	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.011	1169	3	3	99	KED
⌈>	**In**	**115**		ug/L			768427	729010	3	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.001	127	41	31	33	Standard
|	**Sb**	**121**	**-0.010**	ug/L	0.001	11	149	51	16	Standard
|	**Sb**	**123**	**-0.011**	ug/L	0.001	12	121	40	25	Standard
|	**Ba**	**135**	**0.058**	ug/L	0.007	12	19	187	9	Standard
⌊	**Ba**	**137**	**0.056**	ug/L	0.011	20	43	329	15	Standard
⌈>	**Tb**	**159**		ug/L			1165309	1112864	3	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	15	59	29	16	Standard
⌊	**Pb**	**208**	**0.013**	ug/L	0.000	3	118	549	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 02:43:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	805158	2	Standard
	Be	9	48.116	ug/L	1.197	2	11	217725	1	Standard
	C	13		ug/L			20290	19896	0	Standard
	Cl	37		ug/L			4547324	4293321	1	Standard
>	Sc	45		ug/L			929603	854589	1	Standard
	V	51	49.696	ug/L	0.372	0	5265	813420	1	Standard
	V-1	51	49.532	ug/L	0.277	0	86	821318	1	Standard
	Cr	52	47.595	ug/L	0.468	0	15537	680430	1	Standard
	Cr	53	47.200	ug/L	0.615	1	99	79414	2	Standard
>	Ge	72		ug/L			20685	25117	1	KED
	Ni	60	45.383	ug/L	0.932	2	4	24287	1	KED
	Ni	62	45.378	ug/L	1.638	3	2	4090	5	KED
	Cu	63	45.202	ug/L	0.414	0	21	73776	1	KED
	Cu	65	45.971	ug/L	0.903	1	19	36526	0	KED
	Zn	66	43.026	ug/L	0.407	0	648	8532	2	KED
	Zn	67	43.712	ug/L	1.263	2	93	1444	3	KED
	As	75	49.222	ug/L	0.460	0	3	4439	1	KED
	Se	78	48.894	ug/L	1.272	2	4	434	0	KED
	Y	89		ug/L			505441	471768	1	Standard
	Kr	83		ug/L			41	40	5	Standard
>	In-1	115		ug/L			7591	6984	4	KED
	Cd	111	48.401	ug/L	1.794	3	3	5329	1	KED
	Cd	114	48.466	ug/L	1.361	2	3	13273	1	KED
>	In	115		ug/L			768427	704891	1	Standard
	Ag	107	47.000	ug/L	0.980	2	41	527486	1	Standard
	Sb	121	50.024	ug/L	0.622	1	149	445635	0	Standard
	Sb	123	49.814	ug/L	1.201	2	121	339537	0	Standard
	Ba	135	50.051	ug/L	0.308	0	19	142672	2	Standard
	Ba	137	50.312	ug/L	0.946	1	43	249409	1	Standard
>	Tb	159		ug/L			1165309	1099112	2	Standard
	Tl	205	43.143	ug/L	1.680	3	59	1085648	2	Standard
	Pb	208	44.413	ug/L	1.507	3	118	1450372	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 02:50:54
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	823579	1	Standard
	Be	9	-0.001	ug/L	0.001	233	11	8	81	Standard
	C	13		ug/L			20290	18899	0	Standard
	Cl	37		ug/L			4547324	4222791	2	Standard
>	Sc	45		ug/L			929603	868480	1	Standard
	V	51	0.008	ug/L	0.007	82	5265	5050	0	Standard
	V-1	51	-0.000	ug/L	0.000	58	86	74	3	Standard
	Cr	52	0.019	ug/L	0.023	122	15537	14777	0	Standard
	Cr	53	-0.009	ug/L	0.003	33	99	78	5	Standard
>	Ge	72		ug/L			20685	25248	1	KED
	Ni	60	0.003	ug/L	0.009	310	4	6	68	KED
	Ni	62	-0.013	ug/L	0.021	162	2	1	100	KED
	Cu	63	0.001	ug/L	0.008	1214	21	27	44	KED
	Cu	65	-0.012	ug/L	0.004	32	19	13	20	KED
	Zn	66	-3.987	ug/L	0.061	1	648	69	15	KED
	Zn	67	-3.369	ug/L	0.180	5	93	10	50	KED
	As	75	0.001	ug/L	0.027	2954	3	4	49	KED
	Se	78	-0.101	ug/L	0.033	32	4	4	5	KED
	Y	89		ug/L			505441	473628	1	Standard
	Kr	83		ug/L			41	25	18	Standard
>	In-1	115		ug/L			7591	7148	4	KED
	Cd	111	-0.015	ug/L	0.010	63	3	1	69	KED
	Cd	114	-0.006	ug/L	0.008	146	3	1	173	KED
>	In	115		ug/L			768427	721975	1	Standard
	Ag	107	0.001	ug/L	0.001	75	41	51	19	Standard
	Sb	121	0.027	ug/L	0.003	9	149	385	7	Standard
	Sb	123	0.026	ug/L	0.003	13	121	298	8	Standard
	Ba	135	0.002	ug/L	0.002	79	19	24	23	Standard
	Ba	137	0.001	ug/L	0.001	123	43	43	8	Standard
>	Tb	159		ug/L			1165309	1084157	0	Standard
	Tl	205	0.000	ug/L	0.000	57	59	66	9	Standard
	Pb	208	0.002	ug/L	0.000	19	118	171	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0371-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 02:55:49
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	830286	0	Standard
	Be	9	0.264	ug/L	0.012	4	11	1244	4	Standard
	C	13		ug/L			20290	27728	1	Standard
	Cl	37		ug/L			4547324	4217301	1	Standard
>	Sc	45		ug/L			929603	980151	0	Standard
	V	51	45.922	ug/L	1.165	2	5265	862550	2	Standard
	V-1	51	45.991	ug/L	1.076	2	86	874666	2	Standard
	Cr	52	60.802	ug/L	1.106	1	15537	992491	2	Standard
	Cr	53	60.144	ug/L	0.925	1	99	116026	2	Standard
>	Ge	72		ug/L			20685	24691	1	KED
	Ni	60	64.972	ug/L	1.268	1	4	34177	0	KED
	Ni	62	64.564	ug/L	0.433	0	2	5716	2	KED
	Cu	63	33.645	ug/L	0.440	1	21	53983	0	KED
	Cu	65	35.105	ug/L	0.900	2	19	27425	2	KED
	Zn	66	61.444	ug/L	1.229	1	648	11644	1	KED
	Zn	67	62.519	ug/L	4.632	7	93	1983	8	KED
	As	75	3.787	ug/L	0.036	0	3	340	1	KED
	Se	78	2.171	ug/L	0.659	30	4	24	24	KED
	Y	89		ug/L			505441	641278	1	Standard
	Kr	83		ug/L			41	91	13	Standard
>	In-1	115		ug/L			7591	6944	6	KED
	Cd	111	0.137	ug/L	0.044	32	3	18	24	KED
	Cd	114	0.124	ug/L	0.041	33	3	36	29	KED
>	In	115		ug/L			768427	708323	0	Standard
	Ag	107	0.081	ug/L	0.006	6	41	954	5	Standard
	Sb	121	0.005	ug/L	0.001	16	149	179	4	Standard
	Sb	123	0.002	ug/L	0.003	221	121	122	18	Standard
	Ba	135	67.224	ug/L	1.306	1	19	192529	1	Standard
	Ba	137	67.524	ug/L	0.400	0	43	336384	0	Standard
>	Tb	159		ug/L			1165309	1118147	1	Standard
	Tl	205	0.075	ug/L	0.003	4	59	1966	4	Standard
	Pb	208	4.962	ug/L	0.114	2	118	164986	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0371-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 03:00:42
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	803065	3	Standard
	Be	9	0.155	ug/L	0.010	6	11	709	9	Standard
	C	13		ug/L			20290	34494	3	Standard
	Cl	37		ug/L			4547324	4185302	1	Standard
>	Sc	45		ug/L			929603	920269	2	Standard
	V	51	25.748	ug/L	0.301	1	5265	456280	1	Standard
	V-1	51	25.534	ug/L	0.375	1	86	455873	0	Standard
	Cr	52	28.810	ug/L	0.353	1	15537	449556	1	Standard
	Cr	53	27.954	ug/L	0.573	2	99	50669	1	Standard
>	Ge	72		ug/L			20685	25652	2	KED
	Ni	60	20.807	ug/L	0.371	1	4	11374	1	KED
	Ni	62	21.698	ug/L	0.623	2	2	1996	0	KED
	Cu	63	80.144	ug/L	1.442	1	21	133538	1	KED
	Cu	65	82.277	ug/L	0.743	0	19	66749	2	KED
	Zn	66	138.912	ug/L	4.922	3	648	26323	0	KED
	Zn	67	134.528	ug/L	4.706	3	93	4298	3	KED
	As	75	14.747	ug/L	0.408	2	3	1361	1	KED
	Se	78	1.093	ug/L	0.213	19	4	15	11	KED
	Y	89		ug/L			505441	574506	2	Standard
	Kr	83		ug/L			41	59	8	Standard
>	In-1	115		ug/L			7591	7018	1	KED
	Cd	111	0.450	ug/L	0.115	25	3	53	23	KED
	Cd	114	0.461	ug/L	0.065	13	3	129	13	KED
>	In	115		ug/L			768427	716862	2	Standard
	Ag	107	0.376	ug/L	0.010	2	41	4333	4	Standard
	Sb	121	0.401	ug/L	0.005	1	149	3775	3	Standard
	Sb	123	0.391	ug/L	0.005	1	121	2821	1	Standard
	Ba	135	69.815	ug/L	1.169	1	19	202336	1	Standard
	Ba	137	69.531	ug/L	0.837	1	43	350510	0	Standard
>	Tb	159		ug/L			1165309	1113882	1	Standard
	Tl	205	0.060	ug/L	0.004	6	59	1582	4	Standard
	Pb	208	145.936	ug/L	3.785	2	118	4830195	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0371-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 03:05:36
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	794287	4	Standard
	Be	9	0.187	ug/L	0.026	13	11	844	10	Standard
	C	13		ug/L			20290	32683	0	Standard
	Cl	37		ug/L			4547324	4192553	2	Standard
>	Sc	45		ug/L			929603	913393	4	Standard
	V	51	29.147	ug/L	0.746	2	5265	511727	1	Standard
	V-1	51	28.932	ug/L	0.565	1	86	512531	2	Standard
	Cr	52	24.002	ug/L	0.630	2	15537	374101	2	Standard
	Cr	53	23.626	ug/L	0.052	0	99	42530	4	Standard
>	Ge	72		ug/L			20685	24703	0	KED
	Ni	60	24.756	ug/L	0.611	2	4	13035	2	KED
	Ni	62	24.958	ug/L	0.651	2	2	2212	2	KED
	Cu	63	27.365	ug/L	0.459	1	21	43939	1	KED
	Cu	65	28.142	ug/L	0.226	0	19	22005	0	KED
	Zn	66	54.256	ug/L	0.898	1	648	10379	1	KED
	Zn	67	52.864	ug/L	1.854	3	93	1694	3	KED
	As	75	5.081	ug/L	0.199	3	3	455	4	KED
	Se	78	1.347	ug/L	0.147	10	4	17	7	KED
	Y	89		ug/L			505441	581155	2	Standard
	Kr	83		ug/L			41	63	33	Standard
>	In-1	115		ug/L			7591	6898	3	KED
	Cd	111	0.257	ug/L	0.049	18	3	31	17	KED
	Cd	114	0.302	ug/L	0.054	17	3	84	16	KED
>	In	115		ug/L			768427	690938	2	Standard
	Ag	107	0.188	ug/L	0.002	1	41	2105	2	Standard
	Sb	121	0.005	ug/L	0.001	10	149	178	4	Standard
	Sb	123	0.005	ug/L	0.001	10	121	143	2	Standard
	Ba	135	40.400	ug/L	0.581	1	19	112849	1	Standard
	Ba	137	40.630	ug/L	0.555	1	43	197415	1	Standard
>	Tb	159		ug/L			1165309	1085250	3	Standard
	Tl	205	0.078	ug/L	0.005	6	59	1990	3	Standard
	Pb	208	27.842	ug/L	0.902	3	118	897565	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0371-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 03:10:30
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	737000	2	Standard
	Be	9	0.129	ug/L	0.005	3	11	542	2	Standard
	C	13		ug/L			20290	27855	2	Standard
	Cl	37		ug/L			4547324	4033275	0	Standard
>	Sc	45		ug/L			929603	839981	1	Standard
	V	51	21.393	ug/L	0.311	1	5265	346890	1	Standard
	V-1	51	21.224	ug/L	0.311	1	86	345936	1	Standard
	Cr	52	18.029	ug/L	0.300	1	15537	262033	0	Standard
	Cr	53	17.692	ug/L	0.420	2	99	29304	0	Standard
>	Ge	72		ug/L			20685	22760	5	KED
	Ni	60	18.649	ug/L	1.542	8	4	9019	2	KED
	Ni	62	18.649	ug/L	1.670	8	2	1518	2	KED
	Cu	63	7.980	ug/L	0.705	8	21	11784	3	KED
	Cu	65	8.245	ug/L	0.554	6	19	5939	0	KED
	Zn	66	17.779	ug/L	1.417	7	648	3604	0	KED
	Zn	67	18.689	ug/L	2.504	13	93	615	5	KED
	As	75	3.515	ug/L	0.264	7	3	290	5	KED
	Se	78	1.388	ug/L	0.236	16	4	16	6	KED
	Y	89		ug/L			505441	535628	2	Standard
	Kr	83		ug/L			41	43	24	Standard
>	In-1	115		ug/L			7591	6805	4	KED
	Cd	111	0.229	ug/L	0.050	21	3	27	15	KED
	Cd	114	0.213	ug/L	0.064	30	3	59	31	KED
>	In	115		ug/L			768427	659445	1	Standard
	Ag	107	0.036	ug/L	0.002	6	41	410	7	Standard
	Sb	121	-0.004	ug/L	0.002	53	149	90	22	Standard
	Sb	123	-0.006	ug/L	0.000	5	121	65	2	Standard
	Ba	135	17.639	ug/L	0.192	1	19	47046	1	Standard
	Ba	137	17.568	ug/L	0.166	0	43	81503	0	Standard
>	Tb	159		ug/L			1165309	1040322	1	Standard
	Tl	205	0.134	ug/L	0.006	4	59	3234	3	Standard
	Pb	208	2.319	ug/L	0.046	1	118	71803	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0371-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, June 03, 2022 03:15:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	834113	1	Standard
	Be	9	0.116	ug/L	0.009	7	11	554	7	Standard
	C	13		ug/L			20290	37030	3	Standard
	Cl	37		ug/L			4547324	4304506	2	Standard
>	Sc	45		ug/L			929603	928410	1	Standard
	V	51	19.903	ug/L	0.278	1	5265	357049	1	Standard
	V-1	51	19.825	ug/L	0.247	1	86	357164	1	Standard
	Cr	52	26.559	ug/L	0.164	0	15537	419349	0	Standard
	Cr	53	25.923	ug/L	0.081	0	99	47423	1	Standard
>	Ge	72		ug/L			20685	23896	2	KED
	Ni	60	24.225	ug/L	0.221	0	4	12339	2	KED
	Ni	62	24.488	ug/L	0.262	1	2	2099	1	KED
	Cu	63	150.238	ug/L	0.762	0	21	233249	2	KED
	Cu	65	153.761	ug/L	1.178	0	19	116216	3	KED
	Zn	66	157.013	ug/L	0.977	0	648	27639	2	KED
	Zn	67	149.404	ug/L	0.702	0	93	4436	2	KED
	As	75	18.226	ug/L	0.425	2	3	1566	2	KED
	Se	78	0.771	ug/L	0.324	41	4	11	21	KED
	Y	89		ug/L			505441	552637	1	Standard
	Kr	83		ug/L			41	45	4	Standard
>	In-1	115		ug/L			7591	6134	11	KED
	Cd	111	0.789	ug/L	0.142	18	3	78	5	KED
	Cd	114	0.786	ug/L	0.185	23	3	188	12	KED
>	In	115		ug/L			768427	719693	0	Standard
	Ag	107	0.432	ug/L	0.021	4	41	4985	5	Standard
	Sb	121	0.535	ug/L	0.024	4	149	5007	5	Standard
	Sb	123	0.535	ug/L	0.016	2	121	3837	3	Standard
	Ba	135	79.757	ug/L	0.420	0	19	232095	0	Standard
	Ba	137	79.634	ug/L	1.350	1	43	403066	1	Standard
>	Tb	159		ug/L			1165309	1115750	2	Standard
	Tl	205	0.044	ug/L	0.003	7	59	1179	8	Standard
	Pb	208	109.416	ug/L	1.328	1	118	3627864	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0306-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 03:22:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	790272	3	Standard
	Be	9	0.021	ug/L	0.004	16	11	105	18	Standard
	C	13		ug/L			20290	35256	1	Standard
	Cl	37		ug/L			4547324	4412757	1	Standard
>	Sc	45		ug/L			929603	997471	1	Standard
	V	51	4.692	ug/L	0.071	1	5265	94750	2	Standard
	V-1	51	4.817	ug/L	0.077	1	86	93316	2	Standard
	Cr	52	0.638	ug/L	0.006	0	15537	27094	1	Standard
	Cr	53	1.273	ug/L	0.033	2	99	2603	1	Standard
>	Ge	72		ug/L			20685	23986	2	KED
	Ni	60	1.213	ug/L	0.027	2	4	625	3	KED
	Ni	62	1.112	ug/L	0.132	11	2	98	9	KED
	Cu	63	2.200	ug/L	0.081	3	21	3453	5	KED
	Cu	65	2.183	ug/L	0.068	3	19	1678	5	KED
	Zn	66	-2.258	ug/L	0.189	8	648	363	9	KED
	Zn	67	-1.294	ug/L	0.382	29	93	70	14	KED
	As	75	17.915	ug/L	0.563	3	3	1546	4	KED
	Se	78	0.225	ug/L	0.112	49	4	7	10	KED
	Y	89		ug/L			505441	514025	1	Standard
	Kr	83		ug/L			41	34	33	Standard
>	In-1	115		ug/L			7591	5951	4	KED
	Cd	111	0.032	ug/L	0.013	39	3	5	16	KED
	Cd	114	0.027	ug/L	0.011	40	3	8	25	KED
>	In	115		ug/L			768427	692063	1	Standard
	Ag	107	0.009	ug/L	0.001	14	41	132	10	Standard
	Sb	121	0.033	ug/L	0.003	9	149	424	6	Standard
	Sb	123	0.034	ug/L	0.002	7	121	333	3	Standard
	Ba	135	6.952	ug/L	0.064	0	19	19466	0	Standard
	Ba	137	6.869	ug/L	0.026	0	43	33470	1	Standard
>	Tb	159		ug/L			1165309	1111354	1	Standard
	Tl	205	0.020	ug/L	0.001	4	59	553	3	Standard
	Pb	208	0.134	ug/L	0.003	2	118	4550	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0050-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 03:26:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	733902	6	Standard
	Be	9	0.025	ug/L	0.004	17	11	111	9	Standard
	C	13		ug/L			20290	33561	2	Standard
	Cl	37		ug/L			4547324	4180121	1	Standard
>	Sc	45		ug/L			929603	903365	4	Standard
	V	51	4.803	ug/L	0.058	1	5265	87709	3	Standard
	V-1	51	4.920	ug/L	0.069	1	86	86294	3	Standard
	Cr	52	0.695	ug/L	0.041	5	15537	25380	3	Standard
	Cr	53	1.306	ug/L	0.028	2	99	2415	3	Standard
>	Ge	72		ug/L			20685	21875	2	KED
	Ni	60	1.217	ug/L	0.059	4	4	571	3	KED
	Ni	62	1.221	ug/L	0.027	2	2	98	2	KED
	Cu	63	2.149	ug/L	0.017	0	21	3076	2	KED
	Cu	65	2.301	ug/L	0.069	3	19	1612	4	KED
	Zn	66	-2.371	ug/L	0.094	3	648	313	3	KED
	Zn	67	-1.062	ug/L	0.284	26	93	70	9	KED
	As	75	17.668	ug/L	0.699	3	3	1390	2	KED
	Se	78	0.454	ug/L	0.227	50	4	8	20	KED
	Y	89		ug/L			505441	477537	4	Standard
	Kr	83		ug/L			41	36	31	Standard
>	In-1	115		ug/L			7591	6403	1	KED
	Cd	111	0.012	ug/L	0.005	45	3	4	13	KED
	Cd	114	0.012	ug/L	0.014	119	3	5	62	KED
>	In	115		ug/L			768427	658134	3	Standard
	Ag	107	0.011	ug/L	0.002	18	41	152	13	Standard
	Sb	121	0.037	ug/L	0.002	6	149	435	1	Standard
	Sb	123	0.034	ug/L	0.006	17	121	319	11	Standard
	Ba	135	6.591	ug/L	0.144	2	19	17546	2	Standard
	Ba	137	6.727	ug/L	0.219	3	43	31150	1	Standard
>	Tb	159		ug/L			1165309	1038285	4	Standard
	Tl	205	0.017	ug/L	0.001	3	59	461	6	Standard
	Pb	208	0.131	ug/L	0.006	4	118	4148	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0050-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 03:32:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	752314	1	Standard
	Be	9	23.834	ug/L	1.128	4	11	100763	3	Standard
	C	13		ug/L			20290	33090	2	Standard
	Cl	37		ug/L			4547324	4253286	2	Standard
>	Sc	45		ug/L			929603	941789	3	Standard
	V	51	26.929	ug/L	0.752	2	5265	488015	2	Standard
	V-1	51	26.836	ug/L	0.694	2	86	490253	2	Standard
	Cr	52	21.883	ug/L	0.513	2	15537	353136	1	Standard
	Cr	53	21.885	ug/L	0.317	1	99	40619	1	Standard
>	Ge	72		ug/L			20685	23073	2	KED
	Ni	60	23.883	ug/L	0.371	1	4	11748	3	KED
	Ni	62	23.761	ug/L	0.580	2	2	1967	1	KED
	Cu	63	24.733	ug/L	0.107	0	21	37097	2	KED
	Cu	65	25.433	ug/L	0.386	1	19	18572	1	KED
	Zn	66	68.272	ug/L	1.205	1	648	12012	2	KED
	Zn	67	64.861	ug/L	0.426	0	93	1918	1	KED
	As	75	41.950	ug/L	0.316	0	3	3476	1	KED
	Se	78	77.118	ug/L	1.918	2	4	626	4	KED
	Y	89		ug/L			505441	489482	3	Standard
	Kr	83		ug/L			41	40	4	Standard
>	In-1	115		ug/L			7591	6746	0	KED
	Cd	111	23.010	ug/L	0.864	3	3	2451	3	KED
	Cd	114	23.590	ug/L	0.307	1	3	6247	1	KED
>	In	115		ug/L			768427	662086	3	Standard
	Ag	107	23.596	ug/L	0.654	2	41	248684	1	Standard
	Sb	121	0.033	ug/L	0.004	11	149	401	10	Standard
	Sb	123	0.032	ug/L	0.008	24	121	305	14	Standard
	Ba	135	32.953	ug/L	0.961	2	19	88186	2	Standard
	Ba	137	32.871	ug/L	0.733	2	43	153083	3	Standard
>	Tb	159		ug/L			1165309	1043032	4	Standard
	Tl	205	21.966	ug/L	0.823	3	59	524492	3	Standard
	Pb	208	22.738	ug/L	1.013	4	118	704432	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0050-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 03:38:34
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			852592	781011	4	Standard
⌊	Be	9	23.793	ug/L	1.075	4	11	104324	0	Standard
	C	13		ug/L			20290	34906	2	Standard
	Cl	37		ug/L			4547324	4378636	0	Standard
⌈>	Sc	45		ug/L			929603	981458	2	Standard
⌈	V	51	27.086	ug/L	0.081	0	5265	511701	1	Standard
⌈	V-1	51	27.009	ug/L	0.097	0	86	514356	1	Standard
⌈	Cr	52	22.014	ug/L	0.164	0	15537	370312	2	Standard
⌊	Cr	53	22.067	ug/L	0.087	0	99	42694	2	Standard
⌈>	Ge	72		ug/L			20685	22020	2	KED
⌈	Ni	60	23.778	ug/L	0.505	2	4	11158	1	KED
⌈	Ni	62	23.260	ug/L	0.553	2	2	1838	4	KED
⌈	Cu	63	24.592	ug/L	0.635	2	21	35189	1	KED
⌈	Cu	65	25.693	ug/L	0.413	1	19	17905	1	KED
⌈	Zn	66	67.844	ug/L	1.449	2	648	11393	0	KED
⌈	Zn	67	64.613	ug/L	1.789	2	93	1823	1	KED
⌈	As	75	42.465	ug/L	0.523	1	3	3358	1	KED
⌊	Se	78	80.390	ug/L	2.179	2	4	622	0	KED
	Y	89		ug/L			505441	516710	2	Standard
	Kr	83		ug/L			41	38	11	Standard
⌈>	In-1	115		ug/L			7591	6752	2	KED
⌈	Cd	111	23.301	ug/L	0.970	4	3	2483	2	KED
⌊	Cd	114	22.992	ug/L	0.812	3	3	6090	1	KED
⌈>	In	115		ug/L			768427	687521	0	Standard
⌈	Ag	107	23.537	ug/L	0.132	0	41	257712	0	Standard
⌈	Sb	121	0.036	ug/L	0.004	11	149	444	8	Standard
⌈	Sb	123	0.031	ug/L	0.005	16	121	316	10	Standard
⌈	Ba	135	33.512	ug/L	0.317	0	19	93176	1	Standard
⌊	Ba	137	32.626	ug/L	0.290	0	43	157790	1	Standard
⌈>	Tb	159		ug/L			1165309	1092543	2	Standard
⌈	Tl	205	22.023	ug/L	0.512	2	59	551013	1	Standard
⌊	Pb	208	22.405	ug/L	0.547	2	118	727444	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 03:46:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			852592	761042	9	Standard
	Be	**9**	**0.000**	ug/L	0.001	6996	11	10	21	Standard
	C	**13**		ug/L			20290	19888	3	Standard
	Cl	**37**		ug/L			4547324	4049628	3	Standard
>	**Sc**	**45**		ug/L			929603	814940	7	Standard
	V	**51**	**0.041**	ug/L	0.015	37	5265	5241	5	Standard
	V-1	**51**	**0.008**	ug/L	0.002	22	86	202	9	Standard
	Cr	**52**	**0.129**	ug/L	0.055	42	15537	15310	5	Standard
	Cr	**53**	**0.020**	ug/L	0.010	51	99	118	9	Standard
>	**Ge**	**72**		ug/L			20685	23478	1	KED
	Ni	**60**	**0.000**	ug/L	0.002	2635	4	5	21	KED
	Ni	**62**	**-0.004**	ug/L	0.035	920	2	2	114	KED
	Cu	**63**	**0.004**	ug/L	0.002	61	21	29	9	KED
	Cu	**65**	**-0.006**	ug/L	0.004	72	19	17	19	KED
	Zn	**66**	**-4.200**	ug/L	0.038	0	648	29	22	KED
	Zn	**67**	**-3.456**	ug/L	0.237	6	93	7	90	KED
	As	**75**	**0.007**	ug/L	0.009	131	3	5	14	KED
	Se	**78**	**0.215**	ug/L	0.063	29	4	7	6	KED
	Y	**89**		ug/L			505441	443553	7	Standard
	Kr	**83**		ug/L			41	32	29	Standard
>	**In-1**	**115**		ug/L			7591	6987	0	KED
	Cd	**111**	**-0.003**	ug/L	0.009	271	3	2	33	KED
	Cd	**114**	**0.001**	ug/L	0.011	1084	3	3	94	KED
>	**In**	**115**		ug/L			768427	675759	7	Standard
	Ag	**107**	**0.001**	ug/L	0.001	61	41	48	8	Standard
	Sb	**121**	**-0.010**	ug/L	0.002	15	149	44	35	Standard
	Sb	**123**	**-0.011**	ug/L	0.001	6	121	31	16	Standard
	Ba	**135**	**0.003**	ug/L	0.002	59	19	24	24	Standard
	Ba	**137**	**-0.001**	ug/L	0.001	76	43	32	15	Standard
>	**Tb**	**159**		ug/L			1165309	1034021	7	Standard
	Tl	**205**	**0.007**	ug/L	0.001	7	59	213	12	Standard
	Pb	**208**	**0.003**	ug/L	0.001	39	118	186	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 03:51:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	782247	4	Standard
	Be	9	49.274	ug/L	2.754	5	11	216309	1	Standard
	C	13		ug/L			20290	19286	1	Standard
	Cl	37		ug/L			4547324	4319034	1	Standard
>	Sc	45		ug/L			929603	843790	2	Standard
	V	51	48.884	ug/L	0.626	1	5265	790010	2	Standard
	V-1	51	48.713	ug/L	0.390	0	86	797438	1	Standard
	Cr	52	48.199	ug/L	0.534	1	15537	680110	2	Standard
	Cr	53	47.701	ug/L	0.837	1	99	79227	2	Standard
>	Ge	72		ug/L			20685	24528	1	KED
	Ni	60	44.975	ug/L	1.334	2	4	23504	2	KED
	Ni	62	44.371	ug/L	1.713	3	2	3902	2	KED
	Cu	63	44.653	ug/L	1.107	2	21	71153	0	KED
	Cu	65	46.506	ug/L	1.083	2	19	36086	2	KED
	Zn	66	43.795	ug/L	0.549	1	648	8465	0	KED
	Zn	67	43.229	ug/L	2.452	5	93	1396	6	KED
	As	75	49.452	ug/L	1.275	2	3	4354	0	KED
	Se	78	47.640	ug/L	1.396	2	4	413	1	KED
	Y	89		ug/L			505441	462159	1	Standard
	Kr	83		ug/L			41	48	25	Standard
>	In-1	115		ug/L			7591	6722	1	KED
	Cd	111	49.429	ug/L	1.144	2	3	5242	0	KED
	Cd	114	48.779	ug/L	1.198	2	3	12864	1	KED
>	In	115		ug/L			768427	697738	2	Standard
	Ag	107	47.449	ug/L	0.625	1	41	527253	2	Standard
	Sb	121	49.365	ug/L	1.078	2	149	435240	0	Standard
	Sb	123	49.768	ug/L	0.510	1	121	335821	1	Standard
	Ba	135	50.083	ug/L	0.457	0	19	141290	1	Standard
	Ba	137	50.158	ug/L	0.721	1	43	246108	0	Standard
>	Tb	159		ug/L			1165309	1071146	2	Standard
	Tl	205	43.350	ug/L	1.507	3	59	1062918	0	Standard
	Pb	208	44.758	ug/L	1.295	2	118	1424348	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 03:59:24
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	710184	2	Standard
	Be	9	-0.000	ug/L	0.001	305	11	8	24	Standard
	C	13		ug/L			20290	17760	0	Standard
	Cl	37		ug/L			4547324	4088622	1	Standard
>	Sc	45		ug/L			929603	770853	1	Standard
	V	51	0.027	ug/L	0.004	16	5265	4757	2	Standard
	V-1	51	0.003	ug/L	0.001	34	86	117	11	Standard
	Cr	52	0.084	ug/L	0.006	7	15537	13942	1	Standard
	Cr	53	0.006	ug/L	0.007	126	99	91	11	Standard
>	Ge	72		ug/L			20685	23072	3	KED
	Ni	60	-0.004	ug/L	0.008	220	4	3	124	KED
	Ni	62	-0.011	ug/L	0.001	7	2	1		KED
	Cu	63	-0.002	ug/L	0.003	182	21	21	18	KED
	Cu	65	-0.012	ug/L	0.009	75	19	12	45	KED
	Zn	66	-4.218	ug/L	0.097	2	648	26	65	KED
	Zn	67	-3.468	ug/L	0.181	5	93	6	68	KED
	As	75	0.000	ug/L	0.012	4624	3	4	22	KED
	Se	78	0.303	ug/L	0.365	120	4	7	41	KED
	Y	89		ug/L			505441	416634	0	Standard
	Kr	83		ug/L			41	28	0	Standard
>	In-1	115		ug/L			7591	6491	2	KED
	Cd	111	-0.008	ug/L	0.014	183	3	2	65	KED
	Cd	114	-0.003	ug/L	0.000	11	3	1	2	KED
>	In	115		ug/L			768427	635435	0	Standard
	Ag	107	0.001	ug/L	0.000	51	41	40	8	Standard
	Sb	121	0.026	ug/L	0.003	10	149	333	5	Standard
	Sb	123	0.028	ug/L	0.002	5	121	272	4	Standard
	Ba	135	0.001	ug/L	0.003	229	19	19	40	Standard
	Ba	137	-0.000	ug/L	0.000	244	43	34	6	Standard
>	Tb	159		ug/L			1165309	983343	1	Standard
	Tl	205	0.004	ug/L	0.001	12	59	140	7	Standard
	Pb	208	0.001	ug/L	0.000	24	118	139	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0306-05
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 04:04:18
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			852592	809521	1	Standard
	Be	**9**	**0.022**	ug/L	0.002	8	11	111	8	Standard
	C	**13**		ug/L			20290	31972	3	Standard
	Cl	**37**		ug/L			4547324	4045154	3	Standard
>	**Sc**	**45**		ug/L			929603	888751	3	Standard
	V	**51**	**2.296**	ug/L	0.033	1	5265	43884	1	Standard
	V-1	**51**	**2.274**	ug/L	0.024	1	86	39285	2	Standard
	Cr	**52**	**0.289**	ug/L	0.028	9	15537	19053	1	Standard
	Cr	**53**	**0.336**	ug/L	0.012	3	99	682	5	Standard
>	**Ge**	**72**		ug/L			20685	24586	1	KED
	Ni	**60**	**0.372**	ug/L	0.041	11	4	200	12	KED
	Ni	**62**	**0.333**	ug/L	0.096	28	2	32	26	KED
	Cu	**63**	**0.922**	ug/L	0.033	3	21	1497	2	KED
	Cu	**65**	**0.948**	ug/L	0.016	1	19	759	2	KED
	Zn	**66**	**-2.975**	ug/L	0.068	2	648	246	5	KED
	Zn	**67**	**-1.999**	ug/L	0.316	15	93	51	19	KED
	As	**75**	**0.796**	ug/L	0.051	6	3	74	5	KED
	Se	**78**	**0.167**	ug/L	0.438	261	4	7	54	KED
	Y	**89**		ug/L			505441	467434	1	Standard
	Kr	**83**		ug/L			41	29	44	Standard
>	**In-1**	**115**		ug/L			7591	6903	2	KED
	Cd	**111**	**-0.020**	ug/L	0.000	0	3	0		KED
	Cd	**114**	**0.008**	ug/L	0.016	196	3	4	86	KED
>	**In**	**115**		ug/L			768427	686518	1	Standard
	Ag	**107**	**0.006**	ug/L	0.001	23	41	100	16	Standard
	Sb	**121**	**0.110**	ug/L	0.002	2	149	1091	1	Standard
	Sb	**123**	**0.116**	ug/L	0.006	5	121	878	4	Standard
	Ba	**135**	**1.403**	ug/L	0.014	1	19	3910	2	Standard
	Ba	**137**	**1.390**	ug/L	0.019	1	43	6750	2	Standard
>	**Tb**	**159**		ug/L			1165309	1055871	1	Standard
	Tl	**205**	**0.008**	ug/L	0.002	21	59	235	15	Standard
	Pb	**208**	**0.201**	ug/L	0.008	4	118	6408	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0306-07
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 04:09:12
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	792430	2	Standard
	Be	9	0.020	ug/L	0.003	14	11	101	11	Standard
	C	13		ug/L			20290	31972	0	Standard
	Cl	37		ug/L			4547324	3895108	2	Standard
>	Sc	45		ug/L			929603	875597	4	Standard
	V	51	2.404	ug/L	0.018	0	5265	45042	4	Standard
	V-1	51	2.384	ug/L	0.031	1	86	40566	3	Standard
	Cr	52	0.368	ug/L	0.007	1	15537	19909	4	Standard
	Cr	53	0.422	ug/L	0.041	9	99	818	5	Standard
>	Ge	72		ug/L			20685	23153	3	KED
	Ni	60	0.395	ug/L	0.007	1	4	200	3	KED
	Ni	62	0.302	ug/L	0.040	13	2	27	14	KED
	Cu	63	0.980	ug/L	0.067	6	21	1496	6	KED
	Cu	65	1.011	ug/L	0.019	1	19	761	5	KED
	Zn	66	-3.184	ug/L	0.048	1	648	197	7	KED
	Zn	67	-2.342	ug/L	0.314	13	93	38	23	KED
	As	75	0.815	ug/L	0.060	7	3	72	5	KED
	Se	78	0.151	ug/L	0.206	136	4	6	29	KED
	Y	89		ug/L			505441	451711	3	Standard
	Kr	83		ug/L			41	34	25	Standard
>	In-1	115		ug/L			7591	6454	4	KED
	Cd	111	-0.004	ug/L	0.029	817	3	2	114	KED
	Cd	114	0.013	ug/L	0.016	117	3	6	71	KED
>	In	115		ug/L			768427	674281	2	Standard
	Ag	107	0.005	ug/L	0.002	35	41	94	24	Standard
	Sb	121	0.106	ug/L	0.004	3	149	1037	4	Standard
	Sb	123	0.114	ug/L	0.003	2	121	848	1	Standard
	Ba	135	1.555	ug/L	0.050	3	19	4255	2	Standard
	Ba	137	1.576	ug/L	0.026	1	43	7511	4	Standard
>	Tb	159		ug/L			1165309	1031037	2	Standard
	Tl	205	0.006	ug/L	0.001	10	59	200	10	Standard
	Pb	208	0.200	ug/L	0.010	4	118	6222	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0306-09
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 04:14:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	726015	0	Standard
	Be	9	0.042	ug/L	0.006	13	11	180	12	Standard
	C	13		ug/L			20290	33517	0	Standard
	Cl	37		ug/L			4547324	4034856	0	Standard
>	Sc	45		ug/L			929603	869898	0	Standard
	V	51	5.166	ug/L	0.068	1	5265	90482	1	Standard
	V-1	51	5.192	ug/L	0.062	1	86	87712	1	Standard
	Cr	52	0.330	ug/L	0.020	6	15537	19234	1	Standard
	Cr	53	0.698	ug/L	0.025	3	99	1287	3	Standard
>	Ge	72		ug/L			20685	21795	1	KED
	Ni	60	1.414	ug/L	0.170	12	4	660	11	KED
	Ni	62	1.396	ug/L	0.122	8	2	111	8	KED
	Cu	63	3.868	ug/L	0.131	3	21	5498	2	KED
	Cu	65	3.981	ug/L	0.135	3	19	2762	2	KED
	Zn	66	-1.962	ug/L	0.149	7	648	376	5	KED
	Zn	67	-1.202	ug/L	0.477	39	93	66	20	KED
	As	75	12.001	ug/L	0.205	1	3	942	0	KED
	Se	78	0.458	ug/L	0.061	13	4	8	5	KED
	Y	89		ug/L			505441	489631	0	Standard
	Kr	83		ug/L			41	34	6	Standard
>	In-1	115		ug/L			7591	6210	3	KED
	Cd	111	0.009	ug/L	0.016	169	3	3	43	KED
	Cd	114	0.039	ug/L	0.021	54	3	11	39	KED
>	In	115		ug/L			768427	620347	0	Standard
	Ag	107	0.012	ug/L	0.002	18	41	149	14	Standard
	Sb	121	0.137	ug/L	0.000	0	149	1196	0	Standard
	Sb	123	0.138	ug/L	0.007	4	121	927	4	Standard
	Ba	135	2.367	ug/L	0.015	0	19	5952	0	Standard
	Ba	137	2.393	ug/L	0.061	2	43	10473	2	Standard
>	Tb	159		ug/L			1165309	993309	1	Standard
	Tl	205	0.026	ug/L	0.003	10	59	636	10	Standard
	Pb	208	0.080	ug/L	0.003	4	118	2462	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0306-19
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 04:18:59
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			852592	688013	5	Standard
	Be	**9**	**0.020**	ug/L	0.005	26	11	88	25	Standard
	C	**13**		ug/L			20290	32360	4	Standard
	Cl	**37**		ug/L			4547324	4514219	3	Standard
>	**Sc**	**45**		ug/L			929603	875659	5	Standard
	V	**51**	**4.104**	ug/L	0.067	1	5265	73383	5	Standard
	V-1	**51**	**4.634**	ug/L	0.077	1	86	78799	5	Standard
	Cr	**52**	**0.602**	ug/L	0.048	7	15537	23257	3	Standard
	Cr	**53**	**2.479**	ug/L	0.074	2	99	4360	4	Standard
>	**Ge**	**72**		ug/L			20685	21679	0	KED
	Ni	**60**	**2.247**	ug/L	0.082	3	4	1042	3	KED
	Ni	**62**	**2.008**	ug/L	0.238	11	2	158	12	KED
	Cu	**63**	**1.251**	ug/L	0.101	8	21	1784	7	KED
	Cu	**65**	**1.307**	ug/L	0.058	4	19	916	4	KED
	Zn	**66**	**-1.602**	ug/L	0.050	3	648	430	2	KED
	Zn	**67**	**-0.895**	ug/L	0.511	57	93	74	17	KED
	As	**75**	**25.696**	ug/L	0.636	2	3	2002	2	KED
	Se	**78**	**0.335**	ug/L	0.239	71	4	7	23	KED
	Y	**89**		ug/L			505441	436637	4	Standard
	Kr	**83**		ug/L			41	28	40	Standard
>	**In-1**	**115**		ug/L			7591	6097	6	KED
	Cd	**111**	**0.047**	ug/L	0.017	36	3	7	19	KED
	Cd	**114**	**0.045**	ug/L	0.015	33	3	13	28	KED
>	**In**	**115**		ug/L			768427	609317	3	Standard
	Ag	**107**	**0.004**	ug/L	0.001	28	41	73	13	Standard
	Sb	**121**	**0.050**	ug/L	0.001	2	149	504	3	Standard
	Sb	**123**	**0.051**	ug/L	0.005	9	121	394	4	Standard
	Ba	**135**	**3.175**	ug/L	0.024	0	19	7835	3	Standard
	Ba	**137**	**3.166**	ug/L	0.088	2	43	13596	3	Standard
>	**Tb**	**159**		ug/L			1165309	978482	3	Standard
	Tl	**205**	**0.010**	ug/L	0.001	9	59	275	7	Standard
	Pb	**208**	**0.164**	ug/L	0.003	1	118	4861	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0306-21
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 04:23:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	705922	3	Standard
	Be	9	0.023	ug/L	0.001	6	11	100	6	Standard
	C	13		ug/L			20290	33074	1	Standard
	Cl	37		ug/L			4547324	4029932	1	Standard
>	Sc	45		ug/L			929603	873749	2	Standard
	V	51	1.624	ug/L	0.015	0	5265	31969	1	Standard
	V-1	51	1.812	ug/L	0.011	0	86	30804	1	Standard
	Cr	52	0.412	ug/L	0.018	4	15537	20501	2	Standard
	Cr	53	1.077	ug/L	0.013	1	99	1944	3	Standard
>	Ge	72		ug/L			20685	21781	1	KED
	Ni	60	1.589	ug/L	0.034	2	4	742	3	KED
	Ni	62	1.464	ug/L	0.181	12	2	116	10	KED
	Cu	63	1.309	ug/L	0.081	6	21	1874	5	KED
	Cu	65	1.314	ug/L	0.075	5	19	925	7	KED
	Zn	66	2.698	ug/L	0.478	17	648	1102	5	KED
	Zn	67	2.610	ug/L	0.712	27	93	166	9	KED
	As	75	0.641	ug/L	0.042	6	3	54	5	KED
	Se	78	0.441	ug/L	0.086	19	4	8	9	KED
	Y	89		ug/L			505441	428045	2	Standard
	Kr	83		ug/L			41	40	35	Standard
>	In-1	115		ug/L			7591	5927	2	KED
	Cd	111	0.076	ug/L	0.031	41	3	9	29	KED
	Cd	114	0.079	ug/L	0.003	4	3	20	0	KED
>	In	115		ug/L			768427	598269	1	Standard
	Ag	107	0.001	ug/L	0.001	52	41	41	13	Standard
	Sb	121	0.024	ug/L	0.003	11	149	299	6	Standard
	Sb	123	0.020	ug/L	0.002	10	121	210	5	Standard
	Ba	135	3.841	ug/L	0.034	0	19	9303	0	Standard
	Ba	137	3.819	ug/L	0.019	0	43	16103	1	Standard
>	Tb	159		ug/L			1165309	964864	3	Standard
	Tl	205	0.008	ug/L	0.001	7	59	228	5	Standard
	Pb	208	0.242	ug/L	0.006	2	118	7027	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0306-23
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 04:29:10
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	727647	1	Standard
	Be	9	0.024	ug/L	0.003	11	11	109	11	Standard
	C	13		ug/L			20290	39502	0	Standard
	Cl	37		ug/L			4547324	4493996	1	Standard
>	Sc	45		ug/L			929603	903076	0	Standard
	V	51	2.899	ug/L	0.014	0	5265	54960	1	Standard
	V-1	51	3.248	ug/L	0.007	0	86	57001	1	Standard
	Cr	52	0.304	ug/L	0.008	2	15537	19583	0	Standard
	Cr	53	1.559	ug/L	0.018	1	99	2865	1	Standard
>	Ge	72		ug/L			20685	21701	1	KED
	Ni	60	5.976	ug/L	0.105	1	4	2767	0	KED
	Ni	62	5.788	ug/L	0.205	3	2	452	2	KED
	Cu	63	7.053	ug/L	0.071	1	21	9966	1	KED
	Cu	65	7.073	ug/L	0.315	4	19	4871	3	KED
	Zn	66	1.200	ug/L	0.120	9	648	866	2	KED
	Zn	67	1.326	ug/L	0.401	30	93	132	6	KED
	As	75	2.359	ug/L	0.019	0	3	187	1	KED
	Se	78	0.426	ug/L	0.418	98	4	8	38	KED
	Y	89		ug/L			505441	483622	2	Standard
	Kr	83		ug/L			41	34	19	Standard
>	In-1	115		ug/L			7591	5960	1	KED
	Cd	111	0.109	ug/L	0.010	8	3	13	8	KED
	Cd	114	0.071	ug/L	0.009	12	3	18	9	KED
>	In	115		ug/L			768427	628474	1	Standard
	Ag	107	0.044	ug/L	0.005	11	41	474	9	Standard
	Sb	121	0.210	ug/L	0.013	6	149	1791	4	Standard
	Sb	123	0.218	ug/L	0.001	0	121	1425	1	Standard
	Ba	135	8.113	ug/L	0.066	0	19	20628	0	Standard
	Ba	137	8.076	ug/L	0.188	2	43	35736	3	Standard
>	Tb	159		ug/L			1165309	1019222	1	Standard
	Tl	205	0.050	ug/L	0.000	0	59	1221	2	Standard
	Pb	208	0.052	ug/L	0.002	4	118	1666	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0306-25
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 04:34:28
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			852592	715539	4	Standard
⌊	**Be**	**9**	**0.018**	ug/L	0.002	10	11	81	10	Standard
	C	**13**		ug/L			20290	32958	1	Standard
	Cl	**37**		ug/L			4547324	4552968	0	Standard
⌈>	**Sc**	**45**		ug/L			929603	879334	1	Standard
|	**V**	**51**	**2.171**	ug/L	0.047	2	5265	41332	2	Standard
|	**V-1**	**51**	**2.367**	ug/L	0.049	2	86	40462	2	Standard
|	**Cr**	**52**	**0.847**	ug/L	0.024	2	15537	26897	1	Standard
⌊	**Cr**	**53**	**1.543**	ug/L	0.032	2	99	2761	1	Standard
⌈>	**Ge**	**72**		ug/L			20685	20848	0	KED
|	**Ni**	**60**	**0.735**	ug/L	0.031	4	4	330	4	KED
|	**Ni**	**62**	**0.731**	ug/L	0.077	10	2	57	10	KED
|	**Cu**	**63**	**7.078**	ug/L	0.113	1	21	9608	1	KED
|	**Cu**	**65**	**7.104**	ug/L	0.056	0	19	4702	0	KED
|	**Zn**	**66**	**25.413**	ug/L	0.052	0	648	4450	0	KED
|	**Zn**	**67**	**22.807**	ug/L	1.217	5	93	670	4	KED
|	**As**	**75**	**0.545**	ug/L	0.116	21	3	44	19	KED
⌊	**Se**	**78**	**0.467**	ug/L	0.072	15	4	8	6	KED
	Y	**89**		ug/L			505441	414978	2	Standard
	Kr	**83**		ug/L			41	41	27	Standard
⌈>	**In-1**	**115**		ug/L			7591	5831	3	KED
|	**Cd**	**111**	**0.160**	ug/L	0.025	15	3	17	17	KED
⌊	**Cd**	**114**	**0.204**	ug/L	0.033	16	3	48	11	KED
⌈>	**In**	**115**		ug/L			768427	574348	3	Standard
|	**Ag**	**107**	**0.003**	ug/L	0.001	27	41	55	16	Standard
|	**Sb**	**121**	**0.074**	ug/L	0.009	12	149	646	6	Standard
|	**Sb**	**123**	**0.076**	ug/L	0.008	9	121	509	5	Standard
|	**Ba**	**135**	**5.486**	ug/L	0.200	3	19	12742	0	Standard
⌊	**Ba**	**137**	**5.488**	ug/L	0.369	6	43	22161	2	Standard
⌈>	**Tb**	**159**		ug/L			1165309	936165	3	Standard
|	**Tl**	**205**	**0.010**	ug/L	0.001	6	59	257	6	Standard
⌊	**Pb**	**208**	**1.041**	ug/L	0.023	2	118	29041	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0306-27
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 04:40:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	817094	0	Standard
	Be	9	0.019	ug/L	0.002	10	11	98	9	Standard
	C	13		ug/L			20290	36341	0	Standard
	Cl	37		ug/L			4547324	4463398	0	Standard
>	Sc	45		ug/L			929603	995670	1	Standard
	V	51	1.815	ug/L	0.013	0	5265	40042	0	Standard
	V-1	51	2.116	ug/L	0.022	1	86	40959	0	Standard
	Cr	52	0.415	ug/L	0.012	2	15537	23410	0	Standard
	Cr	53	1.447	ug/L	0.038	2	99	2938	1	Standard
>	Ge	72		ug/L			20685	22745	3	KED
	Ni	60	0.655	ug/L	0.076	11	4	323	14	KED
	Ni	62	0.675	ug/L	0.072	10	2	57	10	KED
	Cu	63	0.720	ug/L	0.040	5	21	1086	4	KED
	Cu	65	0.664	ug/L	0.055	8	19	498	9	KED
	Zn	66	-0.708	ug/L	0.228	32	648	596	4	KED
	Zn	67	-0.441	ug/L	0.721	163	93	90	24	KED
	As	75	0.180	ug/L	0.055	30	3	19	23	KED
	Se	78	0.302	ug/L	0.089	29	4	7	6	KED
	Y	89		ug/L			505441	485510	1	Standard
	Kr	83		ug/L			41	33	8	Standard
>	In-1	115		ug/L			7591	6421	1	KED
	Cd	111	0.012	ug/L	0.010	90	3	4	26	KED
	Cd	114	0.024	ug/L	0.011	45	3	8	32	KED
>	In	115		ug/L			768427	684147	1	Standard
	Ag	107	0.001	ug/L	0.001	94	41	46	19	Standard
	Sb	121	0.011	ug/L	0.003	30	149	223	10	Standard
	Sb	123	0.012	ug/L	0.001	8	121	189	4	Standard
	Ba	135	4.690	ug/L	0.097	2	19	12989	1	Standard
	Ba	137	4.684	ug/L	0.041	0	43	22575	2	Standard
>	Tb	159		ug/L			1165309	1074401	1	Standard
	Tl	205	0.008	ug/L	0.000	0	59	251	1	Standard
	Pb	208	0.300	ug/L	0.007	2	118	9680	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0306-17
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, June 03, 2022 04:49:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	789965	4	Standard
	Be	9	0.009	ug/L	0.002	19	11	48	11	Standard
	C	13		ug/L			20290	26911	1	Standard
	Cl	37		ug/L			4547324	4499833	1	Standard
>	Sc	45		ug/L			929603	902584	0	Standard
	V	51	1.177	ug/L	0.023	1	5265	25338	2	Standard
	V-1	51	1.275	ug/L	0.026	2	86	22417	2	Standard
	Cr	52	0.088	ug/L	0.009	9	15537	16382	1	Standard
	Cr	53	0.462	ug/L	0.017	3	99	916	4	Standard
>	Ge	72		ug/L			20685	22270	1	KED
	Ni	60	1.183	ug/L	0.043	3	4	566	4	KED
	Ni	62	1.183	ug/L	0.075	6	2	97	5	KED
	Cu	63	0.468	ug/L	0.012	2	21	699	1	KED
	Cu	65	0.476	ug/L	0.013	2	19	355	3	KED
	Zn	66	-3.466	ug/L	0.123	3	648	144	13	KED
	Zn	67	-2.665	ug/L	0.201	7	93	28	20	KED
	As	75	12.269	ug/L	0.283	2	3	984	1	KED
	Se	78	0.465	ug/L	0.165	35	4	8	14	KED
	Y	89		ug/L			505441	477419	1	Standard
	Kr	83		ug/L			41	31	43	Standard
>	In-1	115		ug/L			7591	6561	2	KED
	Cd	111	-0.014	ug/L	0.014	104	3	1	91	KED
	Cd	114	0.004	ug/L	0.013	289	3	3	86	KED
>	In	115		ug/L			768427	682903	1	Standard
	Ag	107	0.002	ug/L	0.000	19	41	62	9	Standard
	Sb	121	0.025	ug/L	0.001	4	149	352	3	Standard
	Sb	123	0.023	ug/L	0.002	8	121	258	6	Standard
	Ba	135	1.021	ug/L	0.030	2	19	2836	2	Standard
	Ba	137	1.022	ug/L	0.020	1	43	4947	2	Standard
>	Tb	159		ug/L			1165309	1075349	1	Standard
	Tl	205	0.016	ug/L	0.001	6	59	460	6	Standard
	Pb	208	0.037	ug/L	0.000	1	118	1281	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 04:57:21
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			852592	793433	2	Standard
	Be	**9**	**-0.001**	ug/L	0.001	70	11	6	45	Standard
	C	**13**		ug/L			20290	20853	1	Standard
	Cl	**37**		ug/L			4547324	4236509	1	Standard
>	**Sc**	**45**		ug/L			929603	848504	0	Standard
	V	**51**	**0.024**	ug/L	0.007	28	5265	5187	2	Standard
	V-1	**51**	**0.007**	ug/L	0.000	5	86	200	3	Standard
	Cr	**52**	**0.089**	ug/L	0.017	19	15537	15423	2	Standard
	Cr	**53**	**0.034**	ug/L	0.003	9	99	147	3	Standard
>	**Ge**	**72**		ug/L			20685	24087	0	KED
	Ni	**60**	**0.007**	ug/L	0.009	128	4	8	53	KED
	Ni	**62**	**-0.020**	ug/L	0.026	130	2	1	173	KED
	Cu	**63**	**0.002**	ug/L	0.004	169	21	28	20	KED
	Cu	**65**	**-0.010**	ug/L	0.005	53	19	14	27	KED
	Zn	**66**	**-4.211**	ug/L	0.047	1	648	27	28	KED
	Zn	**67**	**-3.548**	ug/L	0.164	4	93	5	94	KED
	As	**75**	**-0.006**	ug/L	0.006	112	3	4	13	KED
	Se	**78**	**-0.095**	ug/L	0.112	118	4	4	19	KED
	Y	**89**		ug/L			505441	457498	0	Standard
	Kr	**83**		ug/L			41	34	22	Standard
>	**In-1**	**115**		ug/L			7591	6572	3	KED
	Cd	**111**	**-0.017**	ug/L	0.005	29	3	1	43	KED
	Cd	**114**	**-0.003**	ug/L	0.008	245	3	1	105	KED
>	**In**	**115**		ug/L			768427	695248	0	Standard
	Ag	**107**	**-0.001**	ug/L	0.001	178	41	31	35	Standard
	Sb	**121**	**-0.011**	ug/L	0.001	7	149	41	17	Standard
	Sb	**123**	**-0.012**	ug/L	0.001	4	121	27	14	Standard
	Ba	**135**	**0.004**	ug/L	0.002	46	19	27	17	Standard
	Ba	**137**	**-0.001**	ug/L	0.002	380	43	36	29	Standard
>	**Tb**	**159**		ug/L			1165309	1058879	1	Standard
	Tl	**205**	**0.008**	ug/L	0.002	25	59	241	17	Standard
	Pb	**208**	**0.002**	ug/L	0.000	15	118	174	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 05:02:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			852592	697396	1	Standard
	Be	**9**	**48.990**	ug/L	1.204	2	11	192032	2	Standard
	C	**13**		ug/L			20290	18799	0	Standard
	Cl	**37**		ug/L			4547324	4196024	1	Standard
>	**Sc**	**45**		ug/L			929603	758509	2	Standard
	V	**51**	**49.281**	ug/L	0.680	1	5265	715998	2	Standard
	V-1	**51**	**49.130**	ug/L	0.583	1	86	723080	2	Standard
	Cr	**52**	**48.290**	ug/L	0.724	1	15537	612467	0	Standard
	Cr	**53**	**47.870**	ug/L	0.264	0	99	71473	1	Standard
>	**Ge**	**72**		ug/L			20685	22500	1	KED
	Ni	**60**	**44.730**	ug/L	1.235	2	4	21442	1	KED
	Ni	**62**	**43.876**	ug/L	1.250	2	2	3540	1	KED
	Cu	**63**	**44.631**	ug/L	0.830	1	21	65245	0	KED
	Cu	**65**	**45.922**	ug/L	1.099	2	19	32684	0	KED
	Zn	**66**	**42.819**	ug/L	0.858	2	648	7608	0	KED
	Zn	**67**	**44.758**	ug/L	3.654	8	93	1321	5	KED
	As	**75**	**49.400**	ug/L	0.551	1	3	3991	0	KED
	Se	**78**	**48.913**	ug/L	1.001	2	4	389	3	KED
	Y	**89**		ug/L			505441	417042	1	Standard
	Kr	**83**		ug/L			41	31	9	Standard
>	**In-1**	**115**		ug/L			7591	6398	2	KED
	Cd	**111**	**48.625**	ug/L	1.458	2	3	4908	2	KED
	Cd	**114**	**48.763**	ug/L	0.965	1	3	12240	1	KED
>	**In**	**115**		ug/L			768427	629505	0	Standard
	Ag	**107**	**47.563**	ug/L	1.082	2	41	476774	2	Standard
	Sb	**121**	**50.539**	ug/L	0.845	1	149	402107	1	Standard
	Sb	**123**	**50.548**	ug/L	1.267	2	121	307756	2	Standard
	Ba	**135**	**50.466**	ug/L	1.170	2	19	128454	2	Standard
	Ba	**137**	**50.095**	ug/L	1.505	3	43	221780	2	Standard
>	**Tb**	**159**		ug/L			1165309	978226	1	Standard
	Tl	**205**	**43.877**	ug/L	1.198	2	59	983148	3	Standard
	Pb	**208**	**45.302**	ug/L	0.821	1	118	1317328	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 05:09:53
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			852592	700495	4	Standard
	Be	**9**	**-0.001**	ug/L	0.001	84	11	4	89	Standard
	C	**13**		ug/L			20290	18189	1	Standard
	Cl	**37**		ug/L			4547324	4172021	1	Standard
>	**Sc**	**45**		ug/L			929603	737627	0	Standard
	V	**51**	**0.030**	ug/L	0.004	12	5265	4601	1	Standard
	V-1	**51**	**0.005**	ug/L	0.001	15	86	137	6	Standard
	Cr	**52**	**0.096**	ug/L	0.010	10	15537	13483	1	Standard
	Cr	**53**	**0.012**	ug/L	0.003	28	99	95	4	Standard
>	**Ge**	**72**		ug/L			20685	24143	0	KED
	Ni	**60**	**0.005**	ug/L	0.010	207	4	7	66	KED
	Ni	**62**	**0.025**	ug/L	0.026	104	2	5	43	KED
	Cu	**63**	**0.006**	ug/L	0.003	47	21	34	13	KED
	Cu	**65**	**-0.008**	ug/L	0.003	35	19	15	13	KED
	Zn	**66**	**-4.248**	ug/L	0.023	0	648	21	18	KED
	Zn	**67**	**-3.505**	ug/L	0.165	4	93	6	75	KED
	As	**75**	**-0.002**	ug/L	0.022	1057	3	4	43	KED
	Se	**78**	**0.114**	ug/L	0.195	171	4	6	25	KED
	Y	**89**		ug/L			505441	407391	3	Standard
	Kr	**83**		ug/L			41	25	31	Standard
>	**In-1**	**115**		ug/L			7591	6818	1	KED
	Cd	**111**	**-0.012**	ug/L	0.009	75	3	1	50	KED
	Cd	**114**	**0.001**	ug/L	0.011	845	3	3	96	KED
>	**In**	**115**		ug/L			768427	625094	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	74	41	46	20	Standard
	Sb	**121**	**0.032**	ug/L	0.007	21	149	370	14	Standard
	Sb	**123**	**0.030**	ug/L	0.003	11	121	277	7	Standard
	Ba	**135**	**0.001**	ug/L	0.003	300	19	18	47	Standard
	Ba	**137**	**0.001**	ug/L	0.003	234	43	41	34	Standard
>	**Tb**	**159**		ug/L			1165309	941301	1	Standard
	Tl	**205**	**0.007**	ug/L	0.001	16	59	188	12	Standard
	Pb	**208**	**0.002**	ug/L	0.000	31	118	139	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0306-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, June 03, 2022 05:14:47
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	672517	2	Standard
	Be	9	0.031	ug/L	0.004	12	11	125	9	Standard
	C	13		ug/L			20290	26793	1	Standard
	Cl	37		ug/L			4547324	4198865	1	Standard
>	Sc	45		ug/L			929603	810220	3	Standard
	V	51	3.624	ug/L	0.062	1	5265	60478	1	Standard
	V-1	51	3.964	ug/L	0.077	1	86	62366	1	Standard
	Cr	52	0.548	ug/L	0.018	3	15537	20811	2	Standard
	Cr	53	1.802	ug/L	0.074	4	99	2955	2	Standard
>	Ge	72		ug/L			20685	20783	2	KED
	Ni	60	0.703	ug/L	0.022	3	4	315	0	KED
	Ni	62	0.778	ug/L	0.184	23	2	60	21	KED
	Cu	63	0.423	ug/L	0.014	3	21	593	1	KED
	Cu	65	0.424	ug/L	0.030	6	19	297	4	KED
	Zn	66	-3.631	ug/L	0.113	3	648	110	15	KED
	Zn	67	-2.484	ug/L	0.323	13	93	31	24	KED
	As	75	7.560	ug/L	0.074	0	3	567	1	KED
	Se	78	0.209	ug/L	0.315	151	4	6	35	KED
	Y	89		ug/L			505441	422925	2	Standard
	Kr	83		ug/L			41	34	24	Standard
>	In-1	115		ug/L			7591	5616	10	KED
	Cd	111	-0.008	ug/L	0.026	316	3	1	132	KED
	Cd	114	0.001	ug/L	0.004	668	3	2	44	KED
>	In	115		ug/L			768427	603904	1	Standard
	Ag	107	0.003	ug/L	0.000	10	41	64	5	Standard
	Sb	121	0.022	ug/L	0.001	6	149	281	2	Standard
	Sb	123	0.022	ug/L	0.001	6	121	226	3	Standard
	Ba	135	5.708	ug/L	0.084	1	19	13949	0	Standard
	Ba	137	5.859	ug/L	0.099	1	43	24913	0	Standard
>	Tb	159		ug/L			1165309	945566	2	Standard
	Tl	205	0.011	ug/L	0.002	18	59	290	17	Standard
	Pb	208	0.033	ug/L	0.000	1	118	1031	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0306-29
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, June 03, 2022 05:19:41
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	691226	2	Standard
	Be	9	0.020	ug/L	0.003	17	11	85	13	Standard
	C	13		ug/L			20290	25667	0	Standard
	Cl	37		ug/L			4547324	3859084	1	Standard
>	Sc	45		ug/L			929603	787105	3	Standard
	V	51	2.236	ug/L	0.031	1	5265	37976	4	Standard
	V-1	51	2.266	ug/L	0.019	0	86	34683	3	Standard
	Cr	52	1.112	ug/L	0.043	3	15537	27494	4	Standard
	Cr	53	1.273	ug/L	0.013	1	99	2053	2	Standard
>	Ge	72		ug/L			20685	21691	0	KED
	Ni	60	1.123	ug/L	0.072	6	4	523	7	KED
	Ni	62	1.050	ug/L	0.333	31	2	84	31	KED
	Cu	63	3.140	ug/L	0.137	4	21	4448	5	KED
	Cu	65	3.232	ug/L	0.113	3	19	2237	4	KED
	Zn	66	10.273	ug/L	0.532	5	648	2276	3	KED
	Zn	67	9.731	ug/L	1.144	11	93	353	7	KED
	As	75	0.518	ug/L	0.072	13	3	44	12	KED
	Se	78	0.049	ug/L	0.165	338	4	5	23	KED
	Y	89		ug/L			505441	410393	2	Standard
	Kr	83		ug/L			41	33	26	Standard
>	In-1	115		ug/L			7591	5834	1	KED
	Cd	111	0.157	ug/L	0.029	18	3	17	16	KED
	Cd	114	0.171	ug/L	0.069	40	3	41	37	KED
>	In	115		ug/L			768427	594763	3	Standard
	Ag	107	0.004	ug/L	0.001	20	41	66	10	Standard
	Sb	121	0.085	ug/L	0.010	11	149	754	8	Standard
	Sb	123	0.088	ug/L	0.001	1	121	601	3	Standard
	Ba	135	5.997	ug/L	0.090	1	19	14432	2	Standard
	Ba	137	6.086	ug/L	0.105	1	43	25480	1	Standard
>	Tb	159		ug/L			1165309	938587	2	Standard
	Tl	205	0.016	ug/L	0.001	4	59	401	2	Standard
	Pb	208	3.107	ug/L	0.106	3	118	86752	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0306-31
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, June 03, 2022 05:24:35
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	700205	5	Standard
	Be	9	0.036	ug/L	0.005	14	11	149	9	Standard
	C	13		ug/L			20290	37323	0	Standard
	Cl	37		ug/L			4547324	3975589	0	Standard
>	Sc	45		ug/L			929603	814697	2	Standard
	V	51	9.832	ug/L	0.031	0	5265	157119	2	Standard
	V-1	51	9.699	ug/L	0.016	0	86	153380	2	Standard
	Cr	52	0.864	ug/L	0.033	3	15537	25135	1	Standard
	Cr	53	0.972	ug/L	0.046	4	99	1644	5	Standard
>	Ge	72		ug/L			20685	21576	2	KED
	Ni	60	1.835	ug/L	0.053	2	4	848	4	KED
	Ni	62	1.888	ug/L	0.297	15	2	148	15	KED
	Cu	63	1.504	ug/L	0.051	3	21	2130	5	KED
	Cu	65	1.559	ug/L	0.112	7	19	1085	9	KED
	Zn	66	4.789	ug/L	0.150	3	648	1416	3	KED
	Zn	67	5.520	ug/L	1.001	18	93	241	8	KED
	As	75	12.530	ug/L	0.319	2	3	973	0	KED
	Se	78	0.953	ug/L	0.074	7	4	12	4	KED
	Y	89		ug/L			505441	466054	0	Standard
	Kr	83		ug/L			41	33	8	Standard
>	In-1	115		ug/L			7591	5949	0	KED
	Cd	111	0.005	ug/L	0.026	539	3	3	75	KED
	Cd	114	0.003	ug/L	0.005	182	3	2	35	KED
>	In	115		ug/L			768427	602455	1	Standard
	Ag	107	0.016	ug/L	0.002	15	41	183	13	Standard
	Sb	121	0.140	ug/L	0.003	2	149	1184	3	Standard
	Sb	123	0.141	ug/L	0.011	7	121	914	5	Standard
	Ba	135	10.277	ug/L	0.178	1	19	25043	0	Standard
	Ba	137	10.222	ug/L	0.270	2	43	43328	0	Standard
>	Tb	159		ug/L			1165309	969003	0	Standard
	Tl	205	0.023	ug/L	0.000	1	59	570	0	Standard
	Pb	208	0.503	ug/L	0.010	2	118	14584	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0313-06
Sample Dil Factor: 10
Comments:
Sample Date/Time: Friday, June 03, 2022 05:29:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			852592	813047	5	Standard
	Be	**9**	**0.002**	ug/L	0.001	37	11	21	13	Standard
	C	**13**		ug/L			20290	31961	1	Standard
	Cl	**37**		ug/L			4547324	4150512	1	Standard
>	**Sc**	**45**		ug/L			929603	854929	1	Standard
	V	**51**	**0.221**	ug/L	0.005	2	5265	8433	0	Standard
	V-1	**51**	**0.221**	ug/L	0.002	0	86	3749	1	Standard
	Cr	**52**	**0.122**	ug/L	0.009	7	15537	15999	1	Standard
	Cr	**53**	**0.130**	ug/L	0.010	7	99	310	6	Standard
>	**Ge**	**72**		ug/L			20685	22806	8	KED
	Ni	**60**	**1.643**	ug/L	0.185	11	4	798	2	KED
	Ni	**62**	**1.585**	ug/L	0.219	13	2	131	7	KED
	Cu	**63**	**0.019**	ug/L	0.005	27	21	51	9	KED
	Cu	**65**	**0.013**	ug/L	0.008	59	19	29	9	KED
	Zn	**66**	**-3.475**	ug/L	0.096	2	648	146	6	KED
	Zn	**67**	**-2.916**	ug/L	0.070	2	93	22	9	KED
	As	**75**	**4.002**	ug/L	0.443	11	3	329	1	KED
	Se	**78**	**-0.059**	ug/L	0.028	47	4	4	9	KED
	Y	**89**		ug/L			505441	458502	0	Standard
	Kr	**83**		ug/L			41	40	18	Standard
>	**In-1**	**115**		ug/L			7591	6727	1	KED
	Cd	**111**	**-0.014**	ug/L	0.010	70	3	1	69	KED
	Cd	**114**	**0.009**	ug/L	0.004	46	3	4	22	KED
>	**In**	**115**		ug/L			768427	690786	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	80	41	46	15	Standard
	Sb	**121**	**0.009**	ug/L	0.002	24	149	216	9	Standard
	Sb	**123**	**0.007**	ug/L	0.002	25	121	154	6	Standard
	Ba	**135**	**0.064**	ug/L	0.007	10	19	194	9	Standard
	Ba	**137**	**0.067**	ug/L	0.004	6	43	364	6	Standard
>	**Tb**	**159**		ug/L			1165309	1052778	2	Standard
	Tl	**205**	**0.006**	ug/L	0.001	17	59	203	15	Standard
	Pb	**208**	**0.001**	ug/L	0.000	42	118	143	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0313-05
Sample Dil Factor: 10
Comments:
Sample Date/Time: Friday, June 03, 2022 05:34:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	665904	3	Standard
	Be	9	0.017	ug/L	0.004	22	11	74	21	Standard
	C	13		ug/L			20290	30659	0	Standard
	Cl	37		ug/L			4547324	3716057	1	Standard
>	Sc	45		ug/L			929603	716904	2	Standard
	V	51	0.579	ug/L	0.016	2	5265	11967	1	Standard
	V-1	51	0.556	ug/L	0.012	2	86	7800	1	Standard
	Cr	52	0.261	ug/L	0.019	7	15537	15042	2	Standard
	Cr	53	0.206	ug/L	0.013	6	99	367	6	Standard
>	Ge	72		ug/L			20685	21175	3	KED
	Ni	60	1.954	ug/L	0.064	3	4	886	4	KED
	Ni	62	1.991	ug/L	0.195	9	2	153	10	KED
	Cu	63	0.340	ug/L	0.031	9	21	490	10	KED
	Cu	65	0.282	ug/L	0.014	4	19	208	4	KED
	Zn	66	-2.836	ug/L	0.144	5	648	233	11	KED
	Zn	67	-1.663	ug/L	0.494	29	93	52	22	KED
	As	75	4.466	ug/L	0.236	5	3	343	2	KED
	Se	78	0.072	ug/L	0.276	382	4	5	36	KED
	Y	89		ug/L			505441	388166	4	Standard
	Kr	83		ug/L			41	26	12	Standard
>	In-1	115		ug/L			7591	5850	3	KED
	Cd	111	-0.019	ug/L	0.010	56	3	0	100	KED
	Cd	114	0.009	ug/L	0.013	148	3	4	67	KED
>	In	115		ug/L			768427	593733	2	Standard
	Ag	107	0.002	ug/L	0.000	12	41	47	4	Standard
	Sb	121	0.012	ug/L	0.001	10	149	205	1	Standard
	Sb	123	0.011	ug/L	0.001	7	121	158	4	Standard
	Ba	135	1.798	ug/L	0.067	3	19	4328	1	Standard
	Ba	137	1.813	ug/L	0.012	0	43	7603	3	Standard
>	Tb	159		ug/L			1165309	919766	1	Standard
	Tl	205	0.008	ug/L	0.001	9	59	213	6	Standard
	Pb	208	0.052	ug/L	0.001	1	118	1521	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0313-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Friday, June 03, 2022 05:40:03
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	675666	2	Standard
	Be	9	0.007	ug/L	0.000	6	11	34	5	Standard
	C	13		ug/L			20290	37078	1	Standard
	Cl	37		ug/L			4547324	3773692	0	Standard
>	Sc	45		ug/L			929603	728337	0	Standard
	V	51	1.150	ug/L	0.028	2	5265	20074	2	Standard
	V-1	51	1.117	ug/L	0.022	1	86	15844	1	Standard
	Cr	52	0.394	ug/L	0.041	10	15537	16879	3	Standard
	Cr	53	0.333	ug/L	0.010	2	99	554	1	Standard
>	Ge	72		ug/L			20685	20771	1	KED
	Ni	60	4.395	ug/L	0.020	0	4	1949	0	KED
	Ni	62	4.350	ug/L	0.286	6	2	326	6	KED
	Cu	63	0.185	ug/L	0.006	3	21	271	1	KED
	Cu	65	0.158	ug/L	0.042	26	19	122	21	KED
	Zn	66	-2.944	ug/L	0.132	4	648	212	8	KED
	Zn	67	-1.957	ug/L	0.382	19	93	44	21	KED
	As	75	5.642	ug/L	0.217	3	3	424	3	KED
	Se	78	-0.025	ug/L	0.293	1174	4	4	48	KED
	Y	89		ug/L			505441	394450	0	Standard
	Kr	83		ug/L			41	25	18	Standard
>	In-1	115		ug/L			7591	5768	1	KED
	Cd	111	-0.005	ug/L	0.006	117	3	2	24	KED
	Cd	114	0.001	ug/L	0.005	671	3	2	44	KED
>	In	115		ug/L			768427	589056	2	Standard
	Ag	107	0.002	ug/L	0.000	20	41	47	6	Standard
	Sb	121	0.017	ug/L	0.004	24	149	242	11	Standard
	Sb	123	0.016	ug/L	0.003	19	121	183	9	Standard
	Ba	135	0.913	ug/L	0.043	4	19	2191	6	Standard
	Ba	137	0.898	ug/L	0.037	4	43	3751	2	Standard
>	Tb	159		ug/L			1165309	928852	1	Standard
	Tl	205	0.010	ug/L	0.000	2	59	252	2	Standard
	Pb	208	0.047	ug/L	0.001	2	118	1405	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 22E0313-02
Sample Dil Factor: 10
Comments:
Sample Date/Time: Friday, June 03, 2022 05:44:57
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	665708	4	Standard
	Be	9	-0.000	ug/L	0.001	360	11	7	50	Standard
	C	13		ug/L			20290	37908	1	Standard
	Cl	37		ug/L			4547324	3716443	2	Standard
>	Sc	45		ug/L			929603	721327	4	Standard
	V	51	0.174	ug/L	0.007	3	5265	6467	3	Standard
	V-1	51	0.143	ug/L	0.003	2	86	2064	3	Standard
	Cr	52	0.287	ug/L	0.023	7	15537	15435	3	Standard
	Cr	53	0.183	ug/L	0.004	2	99	336	2	Standard
>	Ge	72		ug/L			20685	21091	1	KED
	Ni	60	3.989	ug/L	0.161	4	4	1797	5	KED
	Ni	62	4.052	ug/L	0.428	10	2	308	9	KED
	Cu	63	0.019	ug/L	0.007	37	21	48	20	KED
	Cu	65	-0.001	ug/L	0.007	494	19	18	26	KED
	Zn	66	-3.285	ug/L	0.129	3	648	164	11	KED
	Zn	67	-2.578	ug/L	0.242	9	93	29	19	KED
	As	75	0.975	ug/L	0.086	8	3	77	7	KED
	Se	78	0.046	ug/L	0.189	412	4	5	27	KED
	Y	89		ug/L			505441	389346	4	Standard
	Kr	83		ug/L			41	21	18	Standard
>	In-1	115		ug/L			7591	5820	1	KED
	Cd	111	-0.019	ug/L	0.010	54	3	0	100	KED
	Cd	114	0.006	ug/L	0.008	134	3	3	51	KED
>	In	115		ug/L			768427	589166	3	Standard
	Ag	107	-0.001	ug/L	0.000	26	41	25	8	Standard
	Sb	121	0.012	ug/L	0.004	35	149	206	15	Standard
	Sb	123	0.013	ug/L	0.002	14	121	167	5	Standard
	Ba	135	0.109	ug/L	0.002	2	19	274	2	Standard
	Ba	137	0.100	ug/L	0.007	7	43	445	8	Standard
>	Tb	159		ug/L			1165309	912627	3	Standard
	Tl	205	0.008	ug/L	0.001	7	59	216	7	Standard
	Pb	208	0.002	ug/L	0.000	9	118	133	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0051-DUP1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Friday, June 03, 2022 05:50:15
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	821590	3	Standard
	Be	9	-0.001	ug/L	0.000	52	11	7	25	Standard
	C	13		ug/L			20290	40267	1	Standard
	Cl	37		ug/L			4547324	4134172	0	Standard
>	Sc	45		ug/L			929603	861693	3	Standard
	V	51	0.157	ug/L	0.013	7	5265	7452	0	Standard
	V-1	51	0.139	ug/L	0.005	3	86	2407	1	Standard
	Cr	52	0.238	ug/L	0.028	11	15537	17747	1	Standard
	Cr	53	0.177	ug/L	0.002	1	99	392	2	Standard
>	Ge	72		ug/L			20685	23682	2	KED
	Ni	60	3.871	ug/L	0.158	4	4	1957	2	KED
	Ni	62	4.051	ug/L	0.590	14	2	346	12	KED
	Cu	63	0.018	ug/L	0.006	35	21	52	18	KED
	Cu	65	-0.003	ug/L	0.005	179	19	19	22	KED
	Zn	66	-3.207	ug/L	0.134	4	648	198	13	KED
	Zn	67	-3.122	ug/L	0.207	6	93	17	33	KED
	As	75	1.050	ug/L	0.059	5	3	93	7	KED
	Se	78	0.267	ug/L	0.168	63	4	7	16	KED
	Y	89		ug/L			505441	455567	2	Standard
	Kr	83		ug/L			41	24	23	Standard
>	In-1	115		ug/L			7591	6668	1	KED
	Cd	111	-0.017	ug/L	0.005	29	3	1	43	KED
	Cd	114	-0.001	ug/L	0.004	385	3	2	45	KED
>	In	115		ug/L			768427	678753	0	Standard
	Ag	107	0.000	ug/L	0.002	6049	41	36	48	Standard
	Sb	121	0.011	ug/L	0.002	16	149	225	7	Standard
	Sb	123	0.010	ug/L	0.002	17	121	173	6	Standard
	Ba	135	0.086	ug/L	0.004	5	19	253	3	Standard
	Ba	137	0.093	ug/L	0.003	3	43	481	2	Standard
>	Tb	159		ug/L			1165309	1043978	3	Standard
	Tl	205	0.007	ug/L	0.002	28	59	227	19	Standard
	Pb	208	0.001	ug/L	0.000	55	118	133	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BKF0051-MS1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Friday, June 03, 2022 05:56:32
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	696334	4	Standard
	Be	9	2.663	ug/L	0.113	4	11	10419	0	Standard
	C	13		ug/L			20290	37899	1	Standard
	Cl	37		ug/L			4547324	3903027	1	Standard
>	Sc	45		ug/L			929603	770957	1	Standard
	V	51	2.639	ug/L	0.103	3	5265	43126	5	Standard
	V-1	51	2.602	ug/L	0.091	3	86	39007	4	Standard
	Cr	52	2.698	ug/L	0.089	3	15537	46969	3	Standard
	Cr	53	2.577	ug/L	0.063	2	99	3990	3	Standard
>	Ge	72		ug/L			20685	22579	1	KED
	Ni	60	6.141	ug/L	0.284	4	4	2959	5	KED
	Ni	62	6.445	ug/L	0.434	6	2	524	7	KED
	Cu	63	2.320	ug/L	0.039	1	21	3427	3	KED
	Cu	65	2.428	ug/L	0.080	3	19	1754	4	KED
	Zn	66	4.200	ug/L	0.107	2	648	1387	2	KED
	Zn	67	4.754	ug/L	0.843	17	93	231	8	KED
	As	75	3.412	ug/L	0.303	8	3	280	9	KED
	Se	78	8.508	ug/L	0.956	11	4	72	12	KED
	Y	89		ug/L			505441	415059	4	Standard
	Kr	83		ug/L			41	24	13	Standard
>	In-1	115		ug/L			7591	6436	2	KED
	Cd	111	2.483	ug/L	0.096	3	3	254	3	KED
	Cd	114	2.328	ug/L	0.079	3	3	590	3	KED
>	In	115		ug/L			768427	615734	1	Standard
	Ag	107	2.504	ug/L	0.097	3	41	24588	4	Standard
	Sb	121	0.015	ug/L	0.003	17	149	237	9	Standard
	Sb	123	0.014	ug/L	0.001	10	121	177	5	Standard
	Ba	135	2.737	ug/L	0.118	4	19	6827	3	Standard
	Ba	137	2.746	ug/L	0.067	2	43	11927	3	Standard
>	Tb	159		ug/L			1165309	957047	1	Standard
	Tl	205	2.334	ug/L	0.087	3	59	51190	2	Standard
	Pb	208	2.351	ug/L	0.081	3	118	66946	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 06:04:50
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			852592	767493	0	Standard
	Be	**9**	**-0.000**	ug/L	0.001	196	11	8	48	Standard
	C	**13**		ug/L			20290	20172	0	Standard
	Cl	**37**		ug/L			4547324	4081885	0	Standard
>	**Sc**	**45**		ug/L			929603	789943	0	Standard
	V	**51**	**0.027**	ug/L	0.003	10	5265	4881	0	Standard
	V-1	**51**	**0.001**	ug/L	0.001	109	86	84	14	Standard
	Cr	**52**	**0.089**	ug/L	0.008	8	15537	14358	0	Standard
	Cr	**53**	**0.002**	ug/L	0.001	47	99	88	1	Standard
>	**Ge**	**72**		ug/L			20685	22921	1	KED
	Ni	**60**	**0.000**	ug/L	0.002	704	4	5	21	KED
	Ni	**62**	**0.004**	ug/L	0.027	607	2	3	69	KED
	Cu	**63**	**0.004**	ug/L	0.010	242	21	29	48	KED
	Cu	**65**	**-0.012**	ug/L	0.008	66	19	12	48	KED
	Zn	**66**	**-4.203**	ug/L	0.007	0	648	27	3	KED
	Zn	**67**	**-3.562**	ug/L	0.038	1	93	4	24	KED
	As	**75**	**0.000**	ug/L	0.023	4742	3	4	43	KED
	Se	**78**	**0.074**	ug/L	0.193	259	4	5	26	KED
	Y	**89**		ug/L			505441	431042	2	Standard
	Kr	**83**		ug/L			41	22	8	Standard
>	**In-1**	**115**		ug/L			7591	6360	0	KED
	Cd	**111**	**-0.017**	ug/L	0.011	66	3	1	86	KED
	Cd	**114**	**0.005**	ug/L	0.013	265	3	3	86	KED
>	**In**	**115**		ug/L			768427	655392	1	Standard
	Ag	**107**	**-0.000**	ug/L	0.000	52	41	32	5	Standard
	Sb	**121**	**-0.010**	ug/L	0.001	10	149	41	22	Standard
	Sb	**123**	**-0.010**	ug/L	0.001	12	121	42	15	Standard
	Ba	**135**	**0.002**	ug/L	0.002	106	19	21	26	Standard
	Ba	**137**	**-0.001**	ug/L	0.000	72	43	34	5	Standard
>	**Tb**	**159**		ug/L			1165309	992103	1	Standard
	Tl	**205**	**0.001**	ug/L	0.000	35	59	75	11	Standard
	Pb	**208**	**0.001**	ug/L	0.001	89	118	138	23	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 06:09:45
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			852592	638610	2	Standard
⌊	**Be**	**9**	**49.417**	ug/L	0.447	0	11	177398	2	Standard
	C	**13**		ug/L			20290	16957	1	Standard
	Cl	**37**		ug/L			4547324	3912232	1	Standard
⌈>	**Sc**	**45**		ug/L			929603	681565	3	Standard
|	**V**	**51**	**49.543**	ug/L	0.343	0	5265	646808	3	Standard
|	**V-1**	**51**	**49.518**	ug/L	0.368	0	86	654872	3	Standard
|	**Cr**	**52**	**47.976**	ug/L	0.387	0	15537	546916	2	Standard
⌊	**Cr**	**53**	**47.990**	ug/L	0.379	0	99	64380	2	Standard
⌈>	**Ge**	**72**		ug/L			20685	20534	2	KED
|	**Ni**	**60**	**43.324**	ug/L	1.633	3	4	18953	3	KED
|	**Ni**	**62**	**43.480**	ug/L	0.365	0	2	3202	1	KED
|	**Cu**	**63**	**43.925**	ug/L	0.564	1	21	58609	2	KED
|	**Cu**	**65**	**44.562**	ug/L	1.263	2	19	28945	2	KED
|	**Zn**	**66**	**41.916**	ug/L	1.341	3	648	6809	1	KED
|	**Zn**	**67**	**44.566**	ug/L	0.775	1	93	1201	2	KED
|	**As**	**75**	**50.737**	ug/L	0.839	1	3	3741	2	KED
⌊	**Se**	**78**	**50.773**	ug/L	2.459	4	4	368	4	KED
	Y	**89**		ug/L			505441	381758	2	Standard
	Kr	**83**		ug/L			41	31	12	Standard
⌈>	**In-1**	**115**		ug/L			7591	5495	1	KED
|	**Cd**	**111**	**49.665**	ug/L	1.086	2	3	4307	3	KED
⌊	**Cd**	**114**	**49.109**	ug/L	1.639	3	3	10587	1	KED
⌈>	**In**	**115**		ug/L			768427	579141	1	Standard
|	**Ag**	**107**	**46.420**	ug/L	0.055	0	41	428118	1	Standard
|	**Sb**	**121**	**50.745**	ug/L	0.420	0	149	371420	1	Standard
|	**Sb**	**123**	**50.429**	ug/L	0.518	1	121	282454	1	Standard
|	**Ba**	**135**	**50.287**	ug/L	0.419	0	19	117760	1	Standard
⌊	**Ba**	**137**	**50.352**	ug/L	0.432	0	43	205104	2	Standard
⌈>	**Tb**	**159**		ug/L			1165309	902058	2	Standard
|	**Tl**	**205**	**43.370**	ug/L	0.757	1	59	895797	1	Standard
⌊	**Pb**	**208**	**44.589**	ug/L	0.873	1	118	1195205	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 06:17:22
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	760890	2	Standard
	Be	9	-0.000	ug/L	0.001	319	11	8	44	Standard
	C	13		ug/L			20290	18181	1	Standard
	Cl	37		ug/L			4547324	4192398	0	Standard
>	Sc	45		ug/L			929603	795824	1	Standard
	V	51	0.015	ug/L	0.005	36	5265	4728	0	Standard
	V-1	51	0.001	ug/L	0.001	134	86	83	13	Standard
	Cr	52	0.042	ug/L	0.024	58	15537	13842	1	Standard
	Cr	53	-0.004	ug/L	0.009	218	99	78	17	Standard
>	Ge	72		ug/L			20685	22114	2	KED
	Ni	60	0.005	ug/L	0.016	317	4	6	103	KED
	Ni	62	-0.018	ug/L	0.028	157	2	1	173	KED
	Cu	63	0.003	ug/L	0.010	343	21	27	52	KED
	Cu	65	-0.013	ug/L	0.000	3	19	11	0	KED
	Zn	66	-4.220	ug/L	0.057	1	648	24	35	KED
	Zn	67	-3.555	ug/L	0.166	4	93	4	98	KED
	As	75	0.021	ug/L	0.026	121	3	5	32	KED
	Se	78	0.040	ug/L	0.127	314	4	5	18	KED
	Y	89		ug/L			505441	429961	1	Standard
	Kr	83		ug/L			41	31	19	Standard
>	In-1	115		ug/L			7591	6236	3	KED
	Cd	111	-0.000	ug/L	0.018	3664	3	2	66	KED
	Cd	114	-0.003	ug/L	0.007	246	3	1	99	KED
>	In	115		ug/L			768427	646762	0	Standard
	Ag	107	0.001	ug/L	0.002	179	41	44	38	Standard
	Sb	121	0.032	ug/L	0.006	19	149	390	13	Standard
	Sb	123	0.028	ug/L	0.003	9	121	273	5	Standard
	Ba	135	0.004	ug/L	0.000	11	19	26	4	Standard
	Ba	137	-0.001	ug/L	0.002	126	43	29	26	Standard
>	Tb	159		ug/L			1165309	984829	2	Standard
	Tl	205	0.001	ug/L	0.000	22	59	78	9	Standard
	Pb	208	0.000	ug/L	0.001	142	118	110	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 06:22:16
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			852592	765309	1	Standard
	Be	**9**	**-0.001**	ug/L	0.001	77	11	6	45	Standard
	C	**13**		ug/L			20290	20398	1	Standard
	Cl	**37**		ug/L			4547324	4153084	1	Standard
>	**Sc**	**45**		ug/L			929603	802617	0	Standard
	V	**51**	**0.035**	ug/L	0.005	14	5265	5074	1	Standard
	V-1	**51**	**0.001**	ug/L	0.001	97	86	83	10	Standard
	Cr	**52**	**0.118**	ug/L	0.013	10	15537	14967	1	Standard
	Cr	**53**	**0.006**	ug/L	0.003	48	99	95	4	Standard
>	**Ge**	**72**		ug/L			20685	20633	1	KED
	Ni	**60**	**0.003**	ug/L	0.004	151	4	5	33	KED
	Ni	**62**	**0.026**	ug/L	0.029	114	2	4	49	KED
	Cu	**63**	**0.007**	ug/L	0.009	125	21	31	37	KED
	Cu	**65**	**0.006**	ug/L	0.014	227	19	22	38	KED
	Zn	**66**	**-4.270**	ug/L	0.046	1	648	15	43	KED
	Zn	**67**	**-3.596**	ug/L	0.085	2	93	3	69	KED
	As	**75**	**0.022**	ug/L	0.020	90	3	5	24	KED
	Se	**78**	**0.154**	ug/L	0.066	43	4	5	9	KED
	Y	**89**		ug/L			505441	429038	1	Standard
	Kr	**83**		ug/L			41	27	28	Standard
>	**In-1**	**115**		ug/L			7591	5992	5	KED
	Cd	**111**	**-0.006**	ug/L	0.011	188	3	2	49	KED
	Cd	**114**	**0.014**	ug/L	0.025	171	3	5	101	KED
>	**In**	**115**		ug/L			768427	635679	1	Standard
	Ag	**107**	**-0.000**	ug/L	0.000	107	41	33	3	Standard
	Sb	**121**	**0.003**	ug/L	0.001	23	149	146	2	Standard
	Sb	**123**	**0.003**	ug/L	0.001	41	121	119	8	Standard
	Ba	**135**	**0.009**	ug/L	0.003	26	19	40	17	Standard
	Ba	**137**	**0.008**	ug/L	0.002	22	43	73	13	Standard
>	**Tb**	**159**		ug/L			1165309	970397	1	Standard
	Tl	**205**	**0.001**	ug/L	0.000	54	59	62	12	Standard
	Pb	**208**	**0.001**	ug/L	0.000	58	118	121	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 06:27:11
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			852592	782037	2	Standard
	Be	**9**	**-0.001**	ug/L	0.000	73	11	7	25	Standard
	C	**13**		ug/L			20290	20854	1	Standard
	Cl	**37**		ug/L			4547324	4049731	0	Standard
>	**Sc**	**45**		ug/L			929603	804589	0	Standard
	V	**51**	**0.031**	ug/L	0.002	7	5265	5034	0	Standard
	V-1	**51**	**0.000**	ug/L	0.000	132	86	78	5	Standard
	Cr	**52**	**0.105**	ug/L	0.011	10	15537	14834	0	Standard
	Cr	**53**	**0.003**	ug/L	0.004	115	99	91	6	Standard
>	**Ge**	**72**		ug/L			20685	21494	0	KED
	Ni	**60**	**0.009**	ug/L	0.006	67	4	8	32	KED
	Ni	**62**	**0.007**	ug/L	0.051	761	2	3	124	KED
	Cu	**63**	**0.013**	ug/L	0.012	89	21	41	41	KED
	Cu	**65**	**0.003**	ug/L	0.014	524	19	21	43	KED
	Zn	**66**	**-3.979**	ug/L	0.478	12	648	60	121	KED
	Zn	**67**	**-3.260**	ug/L	0.494	15	93	12	107	KED
	As	**75**	**0.025**	ug/L	0.040	161	3	6	51	KED
	Se	**78**	**0.314**	ug/L	0.220	70	4	7	22	KED
	Y	**89**		ug/L			505441	424329	1	Standard
	Kr	**83**		ug/L			41	26	67	Standard
>	**In-1**	**115**		ug/L			7591	6056	1	KED
	Cd	**111**	**-0.003**	ug/L	0.015	602	3	2	57	KED
	Cd	**114**	**0.003**	ug/L	0.005	179	3	3	37	KED
>	**In**	**115**		ug/L			768427	638438	1	Standard
	Ag	**107**	**0.000**	ug/L	0.001	1446	41	34	25	Standard
	Sb	**121**	**-0.004**	ug/L	0.002	65	149	95	21	Standard
	Sb	**123**	**-0.004**	ug/L	0.002	56	121	76	18	Standard
	Ba	**135**	**0.010**	ug/L	0.002	19	19	42	11	Standard
	Ba	**137**	**0.008**	ug/L	0.002	31	43	70	15	Standard
>	**Tb**	**159**		ug/L			1165309	976552	1	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	107	59	45	12	Standard
	Pb	**208**	**0.000**	ug/L	0.001	167	118	108	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 06:32:05
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			852592	752061	4	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	70	11	6	31	Standard
	C	**13**		ug/L			20290	20478	2	Standard
	Cl	**37**		ug/L			4547324	3981245	2	Standard
⌈>	**Sc**	**45**		ug/L			929603	782116	4	Standard
|	**V**	**51**	**0.037**	ug/L	0.012	33	5265	4973	2	Standard
|	**V-1**	**51**	**0.000**	ug/L	0.000	39	86	77	4	Standard
|	**Cr**	**52**	**0.127**	ug/L	0.050	39	15537	14682	2	Standard
⌊	**Cr**	**53**	**0.006**	ug/L	0.009	136	99	93	9	Standard
⌈>	**Ge**	**72**		ug/L			20685	20332	6	KED
|	**Ni**	**60**	**0.000**	ug/L	0.007	3602	4	4	65	KED
|	**Ni**	**62**	**0.010**	ug/L	0.033	319	2	3	69	KED
|	**Cu**	**63**	**0.005**	ug/L	0.010	197	21	28	54	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.012	233	19	15	43	KED
|	**Zn**	**66**	**-4.226**	ug/L	0.019	0	648	21	20	KED
|	**Zn**	**67**	**-3.623**	ug/L	0.108	2	93	2	114	KED
|	**As**	**75**	**-0.007**	ug/L	0.009	119	3	3	14	KED
⌊	**Se**	**78**	**0.320**	ug/L	0.556	173	4	6	54	KED
	Y	**89**		ug/L			505441	421480	2	Standard
	Kr	**83**		ug/L			41	22	28	Standard
⌈>	**In-1**	**115**		ug/L			7591	6149	4	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.006	102	3	2	24	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	203	3	3	38	KED
⌈>	**In**	**115**		ug/L			768427	621951	2	Standard
|	**Ag**	**107**	**-0.000**	ug/L	0.001	462	41	32	17	Standard
|	**Sb**	**121**	**-0.007**	ug/L	0.001	12	149	69	7	Standard
|	**Sb**	**123**	**-0.009**	ug/L	0.002	22	121	46	23	Standard
|	**Ba**	**135**	**0.011**	ug/L	0.003	28	19	43	19	Standard
⌊	**Ba**	**137**	**0.008**	ug/L	0.001	7	43	70	4	Standard
⌈>	**Tb**	**159**		ug/L			1165309	962426	3	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.001	123	59	39	31	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	102	118	117	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 06:36:58
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			852592	559019	6	Standard
	Be	9	-0.002	ug/L	0.001	58	11	2	114	Standard
	C	13		ug/L			20290	16905	2	Standard
	Cl	37		ug/L			4547324	3529832	2	Standard
>	Sc	45		ug/L			929603	580173	5	Standard
	V	51	0.049	ug/L	0.014	28	5265	3827	1	Standard
	V-1	51	0.000	ug/L	0.000	1063	86	54	8	Standard
	Cr	52	0.169	ug/L	0.029	17	15537	11297	2	Standard
	Cr	53	0.006	ug/L	0.017	262	99	70	31	Standard
>	Ge	72		ug/L			20685	17575	1	KED
	Ni	60	-0.003	ug/L	0.008	238	4	2	114	KED
	Ni	62	0.006	ug/L	0.018	290	2	2	43	KED
	Cu	63	0.001	ug/L	0.003	230	21	19	14	KED
	Cu	65	-0.002	ug/L	0.011	680	19	15	37	KED
	Zn	66	-4.252	ug/L	0.002	0	648	15	0	KED
	Zn	67	-3.633	ug/L	0.087	2	93	1	100	KED
	As	75	0.035	ug/L	0.027	76	3	5	30	KED
	Se	78	0.291	ug/L	0.127	43	4	5	12	KED
	Y	89		ug/L			505441	328898	5	Standard
	Kr	83		ug/L			41	30	12	Standard
>	In-1	115		ug/L			7591	4897	1	KED
	Cd	111	-0.017	ug/L	0.000	1	3	0		KED
	Cd	114	0.009	ug/L	0.010	105	3	3	50	KED
>	In	115		ug/L			768427	501504	4	Standard
	Ag	107	0.000	ug/L	0.001	1248	41	27	41	Standard
	Sb	121	-0.010	ug/L	0.002	18	149	35	35	Standard
	Sb	123	-0.010	ug/L	0.001	11	121	29	15	Standard
	Ba	135	-0.001	ug/L	0.002	149	19	10	39	Standard
	Ba	137	-0.005	ug/L	0.001	15	43	10	26	Standard
>	Tb	159		ug/L			1165309	769546	4	Standard
	Tl	205	0.002	ug/L	0.000	20	59	76	7	Standard
	Pb	208	-0.001	ug/L	0.000	19	118	46	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 06:41:52
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			852592	547090	4	Standard
	Be	**9**	**-0.001**	ug/L	0.000	5	11	3	0	Standard
	C	**13**		ug/L			20290	16682	2	Standard
	Cl	**37**		ug/L			4547324	3551701	3	Standard
>	**Sc**	**45**		ug/L			929603	570863	4	Standard
	V	**51**	**0.056**	ug/L	0.008	14	5265	3844	2	Standard
	V-1	**51**	**0.000**	ug/L	0.001	140	86	58	15	Standard
	Cr	**52**	**0.196**	ug/L	0.023	11	15537	11371	2	Standard
	Cr	**53**	**0.011**	ug/L	0.010	84	99	74	17	Standard
>	**Ge**	**72**		ug/L			20685	17774	2	KED
	Ni	**60**	**-0.003**	ug/L	0.008	234	4	2	114	KED
	Ni	**62**	**-0.004**	ug/L	0.030	709	2	1	100	KED
	Cu	**63**	**-0.003**	ug/L	0.006	205	21	15	43	KED
	Cu	**65**	**-0.011**	ug/L	0.004	34	19	10	21	KED
	Zn	**66**	**-4.259**	ug/L	0.008	0	648	14	7	KED
	Zn	**67**	**-3.662**	ug/L	0.104	2	93	1	173	KED
	As	**75**	**0.004**	ug/L	0.005	140	3	3	7	KED
	Se	**78**	**0.085**	ug/L	0.431	509	4	4	58	KED
	Y	**89**		ug/L			505441	320626	4	Standard
	Kr	**83**		ug/L			41	23	20	Standard
>	**In-1**	**115**		ug/L			7591	4743	5	KED
	Cd	**111**	**0.013**	ug/L	0.017	135	3	3	45	KED
	Cd	**114**	**-0.001**	ug/L	0.010	1315	3	1	105	KED
>	**In**	**115**		ug/L			768427	494978	2	Standard
	Ag	**107**	**0.000**	ug/L	0.001	1079	41	27	31	Standard
	Sb	**121**	**-0.011**	ug/L	0.001	8	149	26	24	Standard
	Sb	**123**	**-0.012**	ug/L	0.001	9	121	18	30	Standard
	Ba	**135**	**0.000**	ug/L	0.003	1263	19	12	48	Standard
	Ba	**137**	**-0.003**	ug/L	0.000	6	43	18	5	Standard
>	**Tb**	**159**		ug/L			1165309	763897	4	Standard
	Tl	**205**	**0.001**	ug/L	0.000	51	59	55	18	Standard
	Pb	**208**	**-0.002**	ug/L	0.000	7	118	42	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, June 03, 2022 06:46:46
Number of Replicates: 3
Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth
Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac
Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\060222.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			852592	689990	2	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	684	11	9	20	Standard
	C	**13**		ug/L			20290	17842	2	Standard
	Cl	**37**		ug/L			4547324	3884823	1	Standard
⌈>	**Sc**	**45**		ug/L			929603	719619	2	Standard
|	**V**	**51**	**0.012**	ug/L	0.002	20	5265	4234	2	Standard
|	**V-1**	**51**	**-0.001**	ug/L	0.000	21	86	50	9	Standard
|	**Cr**	**52**	**0.051**	ug/L	0.008	14	15537	12624	2	Standard
⌊	**Cr**	**53**	**0.008**	ug/L	0.010	123	99	88	16	Standard
⌈>	**Ge**	**72**		ug/L			20685	21212	0	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.006	210	4	3	91	KED
|	**Ni**	**62**	**0.016**	ug/L	0.043	274	2	3	86	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.008	184	21	16	63	KED
|	**Cu**	**65**	**-0.011**	ug/L	0.007	64	19	12	39	KED
|	**Zn**	**66**	**-4.252**	ug/L	0.041	0	648	18	33	KED
|	**Zn**	**67**	**-3.574**	ug/L	0.075	2	93	3	50	KED
|	**As**	**75**	**0.003**	ug/L	0.022	765	3	4	38	KED
⌊	**Se**	**78**	**0.064**	ug/L	0.202	313	4	5	28	KED
	Y	**89**		ug/L			505441	397968	2	Standard
	Kr	**83**		ug/L			41	27	20	Standard
⌈>	**In-1**	**115**		ug/L			7591	5886	2	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.016	304	3	2	65	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	941	3	2	43	KED
⌈>	**In**	**115**		ug/L			768427	605193	1	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.000	33	41	23	12	Standard
|	**Sb**	**121**	**-0.012**	ug/L	0.001	12	149	28	40	Standard
|	**Sb**	**123**	**-0.013**	ug/L	0.000	2	121	18	11	Standard
|	**Ba**	**135**	**-0.003**	ug/L	0.001	31	19	8	26	Standard
⌊	**Ba**	**137**	**-0.006**	ug/L	0.001	9	43	10	21	Standard
⌈>	**Tb**	**159**		ug/L			1165309	914222	2	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	731	59	45	22	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.001	29	118	43	33	Standard

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS1
Calibration: FF00009
Control Limt: +/- 10.00%
Sequence: SKF0017

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKF0017-ICV1	Arsenic-75a	50.000	48.9	97.8	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.9	99.9	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.5	101	ug/L	PA 6020B UCT-KE
SKF0017-CCV1	Arsenic-75a	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.8	99.7	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.3	101	ug/L	PA 6020B UCT-KE
SKF0017-CCV2	Arsenic-75a	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.4	98.9	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.1	100	ug/L	PA 6020B UCT-KE
SKF0017-CCV3	Arsenic-75a	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SKF0017-CCV4	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.0	104	ug/L	PA 6020B UCT-KE

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS1
Calibration: FF00009
Control Limt: +/- 10.00%
Sequence: SKF0017

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKF0017-CCV4	Zinc-67	50.000	52.1	104	ug/L	PA 6020B UCT-KE
SKF0017-CCV5	Arsenic-75a	50.000	49.0	98.1	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	48.9	97.7	ug/L	PA 6020B UCT-KE
SKF0017-CCV6	Arsenic-75a	50.000	49.7	99.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.7	99.5	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.3	101	ug/L	PA 6020B UCT-KE
SKF0017-CCV7	Arsenic-75a	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.0	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.8	106	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.3	105	ug/L	PA 6020B UCT-KE
SKF0017-CCV8	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.2	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.1	102	ug/L	PA 6020B UCT-KE
SKF0017-CCV9	Arsenic-75a	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.4	103	ug/L	PA 6020B UCT-KE

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS1
Calibration: FF00009
Control Limt: +/- 10.00%
Sequence: SKF0017

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKF0017-CCV9	Zinc-66	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.1	102	ug/L	PA 6020B UCT-KE
SKF0017-CCVA	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.4	103	ug/L	PA 6020B UCT-KE
SKF0017-CCVB	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SKF0017-CCVC	Arsenic-75a	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.4	103	ug/L	PA 6020B UCT-KE
SKF0017-CCVD	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.8	104	ug/L	PA 6020B UCT-KE
SKF0017-CCVE	Arsenic-75a	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.5	105	ug/L	PA 6020B UCT-KE

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS1
Calibration: FF00009
Control Limt: +/- 10.00%
Sequence: SKF0017

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKF0017-CCVE	Copper-65	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SKF0017-CCVF	Arsenic-75a	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SKF0017-CCVG	Arsenic-75a	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.9	102	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS2
Calibration: FF00014
Control Limt: +/- 10.00%
Sequence: SKF0040

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKF0040-ICV1	Cadmium-111	50.000	49.0	98.0	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.5	98.9	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	48.3	96.6	ug/L	PA 6020B UCT-KE
SKF0040-CCV1	Cadmium-111	50.000	48.9	97.8	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	48.9	97.9	ug/L	PA 6020B UCT-KE
SKF0040-CCV2	Cadmium-111	50.000	49.0	98.0	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.6	97.2	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.8	102	ug/L	PA 6020B UCT-KE
SKF0040-CCV3	Cadmium-111	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.8	99.7	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	48.0	96.1	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	48.9	97.8	ug/L	PA 6020B UCT-KE
SKF0040-CCV4	Cadmium-111	50.000	48.5	97.1	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.7	97.5	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	47.2	94.5	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	48.3	96.5	ug/L	PA 6020B UCT-KE
SKF0040-CCV5	Cadmium-111	50.000	47.4	94.7	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.4	96.8	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	48.6	97.2	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	47.6	95.3	ug/L	PA 6020B UCT-KE
SKF0040-CCV6	Cadmium-111	50.000	48.9	97.8	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	48.1	96.3	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	48.8	97.7	ug/L	PA 6020B UCT-KE
SKF0040-CCV7	Cadmium-111	50.000	47.2	94.5	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	47.7	95.3	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	48.2	96.3	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	48.5	96.9	ug/L	PA 6020B UCT-KE
SKF0040-CCV8	Cadmium-111	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS2
Calibration: FF00014
Control Limt: +/- 10.00%
Sequence: SKF0040

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKF0040-CCV8	Zinc-66	50.000	47.3	94.7	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	47.3	94.6	ug/L	PA 6020B UCT-KE
SKF0040-CCV9	Cadmium-111	50.000	47.9	95.8	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.6	99.1	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.9	102	ug/L	PA 6020B UCT-KE
SKF0040-CCVA	Cadmium-111	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	48.5	97.0	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	47.2	94.4	ug/L	PA 6020B UCT-KE
SKF0040-CCVB	Cadmium-111	50.000	46.8	93.7	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	47.4	94.9	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	48.4	96.8	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SKF0040-CCVC	Cadmium-111	50.000	48.0	96.0	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.9	97.9	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	73.4	147	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	74.6	149	ug/L	PA 6020B UCT-KE
SKF0040-CCVD	Cadmium-111	50.000	47.1	94.3	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	47.7	95.4	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	45.3	90.7	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	45.8	91.6	ug/L	PA 6020B UCT-KE
SKF0040-CCVE	Cadmium-111	50.000	48.4	96.8	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.5	96.9	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	43.0	86.1	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	43.7	87.4	ug/L	PA 6020B UCT-KE
SKF0040-CCVF	Cadmium-111	50.000	49.4	98.9	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.8	97.6	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	43.8	87.6	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	43.2	86.5	ug/L	PA 6020B UCT-KE
SKF0040-CCVG	Cadmium-111	50.000	48.6	97.3	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.8	97.5	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	42.8	85.6	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	44.8	89.5	ug/L	PA 6020B UCT-KE

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS2
Calibration: FF00014
Control Limt: +/- 10.00%
Sequence: SKF0040

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKF0040-CCVH	Cadmium-111	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	41.9	83.8	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	44.6	89.1	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: HydroGeoLogic, Inc.
Instrument ID: ICPMS1
Sequence: SKF0017

SDG: 22E0328
Project: Portland Harbor Superfund Site 2021-2
Calibration: FF00009
Date Analyzed: 06/01/22 14:59

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0017-IBL1	Arsenic-75a	0.0230	0.0373	0.200	ug/L	
SKF0017-IBL1	Cadmium-111	0.00700	0.03	0.100	ug/L	
SKF0017-IBL1	Cadmium-114	0.00400	0.04	0.100	ug/L	
SKF0017-IBL1	Copper-63	0.00600	0.173	0.500	ug/L	
SKF0017-IBL1	Copper-65	0.00500	0.35	0.500	ug/L	
SKF0017-IBL1	Zinc-66	0.0380	2.92	6.00	ug/L	
SKF0017-IBL1	Zinc-67	0.0090	0.94	6.00	ug/L	
SKF0017-ICB1	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SKF0017-ICB1	Cadmium-111	0.00	0.03	0.100	ug/L	
SKF0017-ICB1	Cadmium-114	0.00100	0.04	0.100	ug/L	
SKF0017-ICB1	Copper-63	0.00500	0.173	0.500	ug/L	
SKF0017-ICB1	Copper-65	0.00300	0.35	0.500	ug/L	
SKF0017-ICB1	Zinc-66	0.0220	2.92	6.00	ug/L	
SKF0017-ICB1	Zinc-67	-0.0130	0.94	6.00	ug/L	
SKF0017-CCB1	Arsenic-75a	0.0110	0.0373	0.200	ug/L	
SKF0017-CCB1	Cadmium-111	0.00	0.03	0.100	ug/L	
SKF0017-CCB1	Cadmium-114	0.00200	0.04	0.100	ug/L	
SKF0017-CCB1	Copper-63	0.00300	0.173	0.500	ug/L	
SKF0017-CCB1	Copper-65	0.00900	0.35	0.500	ug/L	
SKF0017-CCB1	Zinc-66	0.0200	2.92	6.00	ug/L	
SKF0017-CCB1	Zinc-67	-0.0010	0.94	6.00	ug/L	
SKF0017-IBL2	Arsenic-75a	0.0240	0.0373	0.200	ug/L	
SKF0017-IBL2	Cadmium-111	0.0130	0.03	0.100	ug/L	
SKF0017-IBL2	Cadmium-114	0.0180	0.04	0.100	ug/L	
SKF0017-IBL2	Copper-63	0.0250	0.173	0.500	ug/L	
SKF0017-IBL2	Copper-65	0.0210	0.35	0.500	ug/L	
SKF0017-IBL2	Zinc-66	0.194	2.92	6.00	ug/L	
SKF0017-IBL2	Zinc-67	0.164	0.94	6.00	ug/L	
SKF0017-IBL3	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SKF0017-IBL3	Cadmium-111	0.00100	0.03	0.100	ug/L	
SKF0017-IBL3	Cadmium-114	0.00100	0.04	0.100	ug/L	
SKF0017-IBL3	Copper-63	0.0120	0.173	0.500	ug/L	
SKF0017-IBL3	Copper-65	0.00400	0.35	0.500	ug/L	
SKF0017-IBL3	Zinc-66	0.172	2.92	6.00	ug/L	
SKF0017-IBL3	Zinc-67	0.138	0.94	6.00	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: HydroGeoLogic, Inc.
Instrument ID: ICPMS1
Sequence: SKF0017

SDG: 22E0328
Project: Portland Harbor Superfund Site 2021-2
Calibration: FF00009
Date Analyzed: 06/01/22 16:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0017-CCB2	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SKF0017-CCB2	Cadmium-111	0.00200	0.03	0.100	ug/L	
SKF0017-CCB2	Cadmium-114	0.00300	0.04	0.100	ug/L	
SKF0017-CCB2	Copper-63	0.00800	0.173	0.500	ug/L	
SKF0017-CCB2	Copper-65	0.00	0.35	0.500	ug/L	
SKF0017-CCB2	Zinc-66	0.0370	2.92	6.00	ug/L	
SKF0017-CCB2	Zinc-67	-0.0360	0.94	6.00	ug/L	
SKF0017-CCB3	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SKF0017-CCB3	Cadmium-111	0.00	0.03	0.100	ug/L	
SKF0017-CCB3	Cadmium-114	0.00100	0.04	0.100	ug/L	
SKF0017-CCB3	Copper-63	0.00300	0.173	0.500	ug/L	
SKF0017-CCB3	Copper-65	0.00	0.35	0.500	ug/L	
SKF0017-CCB3	Zinc-66	0.0570	2.92	6.00	ug/L	
SKF0017-CCB3	Zinc-67	0.0090	0.94	6.00	ug/L	
SKF0017-IBL4	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SKF0017-IBL4	Cadmium-111	0.00200	0.03	0.100	ug/L	
SKF0017-IBL4	Cadmium-114	0.00200	0.04	0.100	ug/L	
SKF0017-IBL4	Copper-63	0.00500	0.173	0.500	ug/L	
SKF0017-IBL4	Copper-65	-0.00400	0.35	0.500	ug/L	
SKF0017-IBL4	Zinc-66	0.0250	2.92	6.00	ug/L	
SKF0017-IBL4	Zinc-67	0.0210	0.94	6.00	ug/L	
SKF0017-IBL5	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SKF0017-IBL5	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SKF0017-IBL5	Cadmium-114	0.00100	0.04	0.100	ug/L	
SKF0017-IBL5	Copper-63	0.00400	0.173	0.500	ug/L	
SKF0017-IBL5	Copper-65	-0.00600	0.35	0.500	ug/L	
SKF0017-IBL5	Zinc-66	0.0510	2.92	6.00	ug/L	
SKF0017-IBL5	Zinc-67	0.0120	0.94	6.00	ug/L	
SKF0017-CCB4	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SKF0017-CCB4	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SKF0017-CCB4	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SKF0017-CCB4	Copper-63	0.00500	0.173	0.500	ug/L	
SKF0017-CCB4	Copper-65	0.00	0.35	0.500	ug/L	
SKF0017-CCB4	Zinc-66	0.0150	2.92	6.00	ug/L	
SKF0017-CCB4	Zinc-67	0.0060	0.94	6.00	ug/L	
SKF0017-IBL6	Arsenic-75a	0.00300	0.0373	0.200	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: HydroGeoLogic, Inc.
Instrument ID: ICPMS1
Sequence: SKF0017

SDG: 22E0328
Project: Portland Harbor Superfund Site 2021-2
Calibration: FF00009
Date Analyzed: 06/01/22 19:56

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0017-IBL6	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SKF0017-IBL6	Cadmium-114	0.00100	0.04	0.100	ug/L	
SKF0017-IBL6	Copper-63	0.00100	0.173	0.500	ug/L	
SKF0017-IBL6	Copper-65	-0.00100	0.35	0.500	ug/L	
SKF0017-IBL6	Zinc-66	0.0280	2.92	6.00	ug/L	
SKF0017-IBL6	Zinc-67	0.0110	0.94	6.00	ug/L	
SKF0017-CCB5	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SKF0017-CCB5	Cadmium-111	0.00100	0.03	0.100	ug/L	
SKF0017-CCB5	Cadmium-114	0.00300	0.04	0.100	ug/L	
SKF0017-CCB5	Copper-63	0.00900	0.173	0.500	ug/L	
SKF0017-CCB5	Copper-65	0.00100	0.35	0.500	ug/L	
SKF0017-CCB5	Zinc-66	0.0480	2.92	6.00	ug/L	
SKF0017-CCB5	Zinc-67	-0.0420	0.94	6.00	ug/L	
SKF0017-CCB6	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SKF0017-CCB6	Cadmium-111	0.00	0.03	0.100	ug/L	
SKF0017-CCB6	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SKF0017-CCB6	Copper-63	0.00200	0.173	0.500	ug/L	
SKF0017-CCB6	Copper-65	-0.00400	0.35	0.500	ug/L	
SKF0017-CCB6	Zinc-66	-0.180	2.92	6.00	ug/L	
SKF0017-CCB6	Zinc-67	-0.163	0.94	6.00	ug/L	
SKF0017-IBL7	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SKF0017-IBL7	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SKF0017-IBL7	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SKF0017-IBL7	Copper-63	0.00200	0.173	0.500	ug/L	
SKF0017-IBL7	Copper-65	0.00300	0.35	0.500	ug/L	
SKF0017-IBL7	Zinc-66	-0.338	2.92	6.00	ug/L	
SKF0017-IBL7	Zinc-67	-0.354	0.94	6.00	ug/L	
SKF0017-CCB7	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SKF0017-CCB7	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SKF0017-CCB7	Cadmium-114	0.00100	0.04	0.100	ug/L	
SKF0017-CCB7	Copper-63	0.00500	0.173	0.500	ug/L	
SKF0017-CCB7	Copper-65	0.00600	0.35	0.500	ug/L	
SKF0017-CCB7	Zinc-66	-0.146	2.92	6.00	ug/L	
SKF0017-CCB7	Zinc-67	-0.138	0.94	6.00	ug/L	
SKF0017-IBL8	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SKF0017-IBL8	Cadmium-111	-0.00600	0.03	0.100	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: HydroGeoLogic, Inc.
Instrument ID: ICPMS1
Sequence: SKF0017

SDG: 22E0328
Project: Portland Harbor Superfund Site 2021-2
Calibration: FF00009
Date Analyzed: 06/01/22 22:36

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0017-IBL8	Cadmium-114	0.00	0.04	0.100	ug/L	
SKF0017-IBL8	Copper-63	0.00200	0.173	0.500	ug/L	
SKF0017-IBL8	Copper-65	0.00100	0.35	0.500	ug/L	
SKF0017-IBL8	Zinc-66	-0.330	2.92	6.00	ug/L	
SKF0017-IBL8	Zinc-67	-0.348	0.94	6.00	ug/L	
SKF0017-CCB8	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SKF0017-CCB8	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SKF0017-CCB8	Cadmium-114	0.00400	0.04	0.100	ug/L	
SKF0017-CCB8	Copper-63	0.00700	0.173	0.500	ug/L	
SKF0017-CCB8	Copper-65	0.00600	0.35	0.500	ug/L	
SKF0017-CCB8	Zinc-66	-0.133	2.92	6.00	ug/L	
SKF0017-CCB8	Zinc-67	-0.0770	0.94	6.00	ug/L	
SKF0017-IBL9	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SKF0017-IBL9	Cadmium-111	0.00300	0.03	0.100	ug/L	
SKF0017-IBL9	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SKF0017-IBL9	Copper-63	0.00600	0.173	0.500	ug/L	
SKF0017-IBL9	Copper-65	0.00100	0.35	0.500	ug/L	
SKF0017-IBL9	Zinc-66	-0.330	2.92	6.00	ug/L	
SKF0017-IBL9	Zinc-67	-0.339	0.94	6.00	ug/L	
SKF0017-CCB9	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SKF0017-CCB9	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SKF0017-CCB9	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SKF0017-CCB9	Copper-63	0.00400	0.173	0.500	ug/L	
SKF0017-CCB9	Copper-65	0.00400	0.35	0.500	ug/L	
SKF0017-CCB9	Zinc-66	-0.110	2.92	6.00	ug/L	
SKF0017-CCB9	Zinc-67	-0.164	0.94	6.00	ug/L	
SKF0017-IBLA	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SKF0017-IBLA	Cadmium-111	0.00100	0.03	0.100	ug/L	
SKF0017-IBLA	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SKF0017-IBLA	Copper-63	0.00500	0.173	0.500	ug/L	
SKF0017-IBLA	Copper-65	0.00400	0.35	0.500	ug/L	
SKF0017-IBLA	Zinc-66	-0.336	2.92	6.00	ug/L	
SKF0017-IBLA	Zinc-67	-0.339	0.94	6.00	ug/L	
SKF0017-CCBA	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SKF0017-CCBA	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SKF0017-CCBA	Cadmium-114	0.00100	0.04	0.100	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: HydroGeoLogic, Inc.
Instrument ID: ICPMS1
Sequence: SKF0017

SDG: 22E0328
Project: Portland Harbor Superfund Site 2021-2
Calibration: FF00009
Date Analyzed: 06/02/22 00:59

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0017-CCBA	Copper-63	0.00500	0.173	0.500	ug/L	
SKF0017-CCBA	Copper-65	0.0100	0.35	0.500	ug/L	
SKF0017-CCBA	Zinc-66	-0.133	2.92	6.00	ug/L	
SKF0017-CCBA	Zinc-67	-0.0930	0.94	6.00	ug/L	
SKF0017-CCBB	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SKF0017-CCBB	Cadmium-111	0.00100	0.03	0.100	ug/L	
SKF0017-CCBB	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SKF0017-CCBB	Copper-63	0.00600	0.173	0.500	ug/L	
SKF0017-CCBB	Copper-65	0.0100	0.35	0.500	ug/L	
SKF0017-CCBB	Zinc-66	-0.129	2.92	6.00	ug/L	
SKF0017-CCBB	Zinc-67	-0.164	0.94	6.00	ug/L	
SKF0017-IBLB	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SKF0017-IBLB	Cadmium-111	0.00900	0.03	0.100	ug/L	
SKF0017-IBLB	Cadmium-114	0.00600	0.04	0.100	ug/L	
SKF0017-IBLB	Copper-63	0.00700	0.173	0.500	ug/L	
SKF0017-IBLB	Copper-65	0.00700	0.35	0.500	ug/L	
SKF0017-IBLB	Zinc-66	-0.313	2.92	6.00	ug/L	
SKF0017-IBLB	Zinc-67	-0.298	0.94	6.00	ug/L	
SKF0017-CCBC	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SKF0017-CCBC	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SKF0017-CCBC	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SKF0017-CCBC	Copper-63	0.00900	0.173	0.500	ug/L	
SKF0017-CCBC	Copper-65	0.00500	0.35	0.500	ug/L	
SKF0017-CCBC	Zinc-66	-0.129	2.92	6.00	ug/L	
SKF0017-CCBC	Zinc-67	-0.159	0.94	6.00	ug/L	
SKF0017-CCBD	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SKF0017-CCBD	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SKF0017-CCBD	Cadmium-114	0.00100	0.04	0.100	ug/L	
SKF0017-CCBD	Copper-63	0.00200	0.173	0.500	ug/L	
SKF0017-CCBD	Copper-65	0.00	0.35	0.500	ug/L	
SKF0017-CCBD	Zinc-66	0.0030	2.92	6.00	ug/L	
SKF0017-CCBD	Zinc-67	-0.0560	0.94	6.00	ug/L	
SKF0017-IBLC	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SKF0017-IBLC	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SKF0017-IBLC	Cadmium-114	0.00100	0.04	0.100	ug/L	
SKF0017-IBLC	Copper-63	-0.00500	0.173	0.500	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: HydroGeoLogic, Inc.
Instrument ID: ICPMS1
Sequence: SKF0017

SDG: 22E0328
Project: Portland Harbor Superfund Site 2021-2
Calibration: FF00009
Date Analyzed: 06/02/22 04:23

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0017-IBLC	Copper-65	-0.00100	0.35	0.500	ug/L	
SKF0017-IBLC	Zinc-66	-0.218	2.92	6.00	ug/L	
SKF0017-IBLC	Zinc-67	-0.205	0.94	6.00	ug/L	
SKF0017-CCBE	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SKF0017-CCBE	Cadmium-111	0.130	0.03	0.100	ug/L	
SKF0017-CCBE	Cadmium-114	0.130	0.04	0.100	ug/L	
SKF0017-CCBE	Copper-63	0.00200	0.173	0.500	ug/L	
SKF0017-CCBE	Copper-65	0.00100	0.35	0.500	ug/L	
SKF0017-CCBE	Zinc-66	-0.122	2.92	6.00	ug/L	
SKF0017-CCBE	Zinc-67	-0.154	0.94	6.00	ug/L	
SKF0017-IBLD	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SKF0017-IBLD	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SKF0017-IBLD	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SKF0017-IBLD	Copper-63	-0.00300	0.173	0.500	ug/L	
SKF0017-IBLD	Copper-65	-0.00200	0.35	0.500	ug/L	
SKF0017-IBLD	Zinc-66	-0.180	2.92	6.00	ug/L	
SKF0017-IBLD	Zinc-67	-0.210	0.94	6.00	ug/L	
SKF0017-IBLE	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SKF0017-IBLE	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SKF0017-IBLE	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SKF0017-IBLE	Copper-63	-0.00400	0.173	0.500	ug/L	
SKF0017-IBLE	Copper-65	-0.0100	0.35	0.500	ug/L	
SKF0017-IBLE	Zinc-66	-0.176	2.92	6.00	ug/L	
SKF0017-IBLE	Zinc-67	-0.250	0.94	6.00	ug/L	
SKF0017-CCBF	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SKF0017-CCBF	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SKF0017-CCBF	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SKF0017-CCBF	Copper-63	0.00300	0.173	0.500	ug/L	
SKF0017-CCBF	Copper-65	-0.00200	0.35	0.500	ug/L	
SKF0017-CCBF	Zinc-66	-0.148	2.92	6.00	ug/L	
SKF0017-CCBF	Zinc-67	-0.122	0.94	6.00	ug/L	
SKF0017-IBLF	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SKF0017-IBLF	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SKF0017-IBLF	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SKF0017-IBLF	Copper-63	0.00600	0.173	0.500	ug/L	
SKF0017-IBLF	Copper-65	0.00800	0.35	0.500	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2
Instrument ID: ICPMS1
Calibration: FF00009
Sequence: SKF0017
Date Analyzed: 06/02/22 06:14

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0017-IBLF	Zinc-66	-0.0280	2.92	6.00	ug/L	
SKF0017-IBLF	Zinc-67	-0.0310	0.94	6.00	ug/L	
SKF0017-IBLG	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SKF0017-IBLG	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SKF0017-IBLG	Cadmium-114	0.00100	0.04	0.100	ug/L	
SKF0017-IBLG	Copper-63	0.0100	0.173	0.500	ug/L	
SKF0017-IBLG	Copper-65	0.00500	0.35	0.500	ug/L	
SKF0017-IBLG	Zinc-66	-0.0290	2.92	6.00	ug/L	
SKF0017-IBLG	Zinc-67	0.0550	0.94	6.00	ug/L	
SKF0017-CCBG	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SKF0017-CCBG	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SKF0017-CCBG	Cadmium-114	0.00600	0.04	0.100	ug/L	
SKF0017-CCBG	Copper-63	0.00200	0.173	0.500	ug/L	
SKF0017-CCBG	Copper-65	-0.00200	0.35	0.500	ug/L	
SKF0017-CCBG	Zinc-66	-0.106	2.92	6.00	ug/L	
SKF0017-CCBG	Zinc-67	-0.124	0.94	6.00	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: HydroGeoLogic, Inc.
Instrument ID: ICPMS2
Sequence: SKF0040

SDG: 22E0328
Project: Portland Harbor Superfund Site 2021-2
Calibration: FF00014
Date Analyzed: 06/02/22 15:32

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0040-IBL1	Cadmium-111	0.00400	0.03	0.100	ug/L	
SKF0040-IBL1	Cadmium-114	0.00400	0.04	0.100	ug/L	
SKF0040-IBL1	Zinc-66	-0.0070	2.92	6.00	ug/L	
SKF0040-IBL1	Zinc-67	-0.0780	0.94	6.00	ug/L	
SKF0040-ICB1	Cadmium-111	-0.00900	0.03	0.100	ug/L	
SKF0040-ICB1	Cadmium-114	0.00200	0.04	0.100	ug/L	
SKF0040-ICB1	Zinc-66	-0.0100	2.92	6.00	ug/L	
SKF0040-ICB1	Zinc-67	-0.0370	0.94	6.00	ug/L	
SKF0040-CCB1	Cadmium-111	-0.0110	0.03	0.100	ug/L	
SKF0040-CCB1	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SKF0040-CCB1	Zinc-66	-0.0070	2.92	6.00	ug/L	
SKF0040-CCB1	Zinc-67	-0.0360	0.94	6.00	ug/L	
SKF0040-IBL2	Cadmium-111	-0.0100	0.03	0.100	ug/L	
SKF0040-IBL2	Cadmium-114	0.00800	0.04	0.100	ug/L	
SKF0040-IBL2	Zinc-66	0.0070	2.92	6.00	ug/L	
SKF0040-IBL2	Zinc-67	-0.0490	0.94	6.00	ug/L	
SKF0040-IBL3	Cadmium-111	0.00700	0.03	0.100	ug/L	
SKF0040-IBL3	Cadmium-114	0.0120	0.04	0.100	ug/L	
SKF0040-IBL3	Zinc-66	0.0510	2.92	6.00	ug/L	
SKF0040-IBL3	Zinc-67	0.0360	0.94	6.00	ug/L	
SKF0040-CCB2	Cadmium-111	0.0120	0.03	0.100	ug/L	
SKF0040-CCB2	Cadmium-114	0.0100	0.04	0.100	ug/L	
SKF0040-CCB2	Zinc-66	-0.0310	2.92	6.00	ug/L	
SKF0040-CCB2	Zinc-67	0.0080	0.94	6.00	ug/L	
SKF0040-CCB3	Cadmium-111	0.0100	0.03	0.100	ug/L	
SKF0040-CCB3	Cadmium-114	0.00200	0.04	0.100	ug/L	
SKF0040-CCB3	Zinc-66	-0.0480	2.92	6.00	ug/L	
SKF0040-CCB3	Zinc-67	-0.100	0.94	6.00	ug/L	
SKF0040-IBL4	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SKF0040-IBL4	Cadmium-114	0.00800	0.04	0.100	ug/L	
SKF0040-IBL4	Zinc-66	1.87	2.92	6.00	ug/L	
SKF0040-IBL4	Zinc-67	1.72	0.94	6.00	ug/L	
SKF0040-CCB4	Cadmium-111	0.00	0.03	0.100	ug/L	
SKF0040-CCB4	Cadmium-114	0.00700	0.04	0.100	ug/L	
SKF0040-CCB4	Zinc-66	-0.0350	2.92	6.00	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: HydroGeoLogic, Inc.
Instrument ID: ICPMS2
Sequence: SKF0040

SDG: 22E0328
Project: Portland Harbor Superfund Site 2021-2
Calibration: FF00014
Date Analyzed: 06/02/22 18:40

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0040-CCB4	Zinc-67	-0.0070	0.94	6.00	ug/L	
SKF0040-CCB5	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SKF0040-CCB5	Cadmium-114	0.00	0.04	0.100	ug/L	
SKF0040-CCB5	Zinc-66	0.0080	2.92	6.00	ug/L	
SKF0040-CCB5	Zinc-67	0.0320	0.94	6.00	ug/L	
SKF0040-IBL5	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SKF0040-IBL5	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SKF0040-IBL5	Zinc-66	0.641	2.92	6.00	ug/L	
SKF0040-IBL5	Zinc-67	0.621	0.94	6.00	ug/L	
SKF0040-CCB6	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SKF0040-CCB6	Cadmium-114	-0.00400	0.04	0.100	ug/L	
SKF0040-CCB6	Zinc-66	-0.0480	2.92	6.00	ug/L	
SKF0040-CCB6	Zinc-67	-0.0830	0.94	6.00	ug/L	
SKF0040-IBL6	Cadmium-111	0.00700	0.03	0.100	ug/L	
SKF0040-IBL6	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SKF0040-IBL6	Zinc-66	0.675	2.92	6.00	ug/L	
SKF0040-IBL6	Zinc-67	0.789	0.94	6.00	ug/L	
SKF0040-CCB7	Cadmium-111	0.00	0.03	0.100	ug/L	
SKF0040-CCB7	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SKF0040-CCB7	Zinc-66	-0.0270	2.92	6.00	ug/L	
SKF0040-CCB7	Zinc-67	0.0010	0.94	6.00	ug/L	
SKF0040-IBL7	Cadmium-111	0.00700	0.03	0.100	ug/L	
SKF0040-IBL7	Cadmium-114	0.00600	0.04	0.100	ug/L	
SKF0040-IBL7	Zinc-66	0.587	2.92	6.00	ug/L	
SKF0040-IBL7	Zinc-67	0.576	0.94	6.00	ug/L	
SKF0040-CCB8	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SKF0040-CCB8	Cadmium-114	0.00600	0.04	0.100	ug/L	
SKF0040-CCB8	Zinc-66	0.0250	2.92	6.00	ug/L	
SKF0040-CCB8	Zinc-67	0.0890	0.94	6.00	ug/L	
SKF0040-CCB9	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SKF0040-CCB9	Cadmium-114	-0.00400	0.04	0.100	ug/L	
SKF0040-CCB9	Zinc-66	-0.0090	2.92	6.00	ug/L	
SKF0040-CCB9	Zinc-67	-0.0400	0.94	6.00	ug/L	
SKF0040-IBL8	Cadmium-111	0.00	0.03	0.100	ug/L	
SKF0040-IBL8	Cadmium-114	0.00700	0.04	0.100	ug/L	
SKF0040-IBL8	Zinc-66	0.694	2.92	6.00	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: HydroGeoLogic, Inc.
Instrument ID: ICPMS2
Sequence: SKF0040

SDG: 22E0328
Project: Portland Harbor Superfund Site 2021-2
Calibration: FF00014
Date Analyzed: 06/02/22 23:31

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0040-IBL8	Zinc-67	0.671	0.94	6.00	ug/L	
SKF0040-CCBA	Cadmium-111	0.00700	0.03	0.100	ug/L	
SKF0040-CCBA	Cadmium-114	0.00	0.04	0.100	ug/L	
SKF0040-CCBA	Zinc-66	-0.0160	2.92	6.00	ug/L	
SKF0040-CCBA	Zinc-67	-0.0370	0.94	6.00	ug/L	
SKF0040-IBL9	Cadmium-111	0.00100	0.03	0.100	ug/L	
SKF0040-IBL9	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SKF0040-IBL9	Zinc-66	0.626	2.92	6.00	ug/L	
SKF0040-IBL9	Zinc-67	0.585	0.94	6.00	ug/L	
SKF0040-IBLA	Cadmium-111	0.00300	0.03	0.100	ug/L	
SKF0040-IBLA	Cadmium-114	0.00800	0.04	0.100	ug/L	
SKF0040-IBLA	Zinc-66	0.787	2.92	6.00	ug/L	
SKF0040-IBLA	Zinc-67	0.689	0.94	6.00	ug/L	
SKF0040-CCBB	Cadmium-111	0.00100	0.03	0.100	ug/L	
SKF0040-CCBB	Cadmium-114	0.00100	0.04	0.100	ug/L	
SKF0040-CCBB	Zinc-66	0.0240	2.92	6.00	ug/L	
SKF0040-CCBB	Zinc-67	0.0600	0.94	6.00	ug/L	
SKF0040-IBLB	Cadmium-111	0.00100	0.03	0.100	ug/L	
SKF0040-IBLB	Cadmium-114	0.00300	0.04	0.100	ug/L	
SKF0040-IBLB	Zinc-66	13.8	2.92	6.00	ug/L	
SKF0040-IBLB	Zinc-67	11.4	0.94	6.00	ug/L	
SKF0040-CCBC	Cadmium-111	0.00400	0.03	0.100	ug/L	
SKF0040-CCBC	Cadmium-114	0.0130	0.04	0.100	ug/L	
SKF0040-CCBC	Zinc-66	1.82	2.92	6.00	ug/L	
SKF0040-CCBC	Zinc-67	1.77	0.94	6.00	ug/L	
SKF0040-CCBD	Cadmium-111	-0.0110	0.03	0.100	ug/L	
SKF0040-CCBD	Cadmium-114	-0.00700	0.04	0.100	ug/L	
SKF0040-CCBD	Zinc-66	-3.34	2.92	6.00	ug/L	
SKF0040-CCBD	Zinc-67	-2.84	0.94	6.00	ug/L	
SKF0040-IBLC	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SKF0040-IBLC	Cadmium-114	0.00100	0.04	0.100	ug/L	
SKF0040-IBLC	Zinc-66	-2.84	2.92	6.00	ug/L	
SKF0040-IBLC	Zinc-67	-2.21	0.94	6.00	ug/L	
SKF0040-CCBE	Cadmium-111	-0.0150	0.03	0.100	ug/L	
SKF0040-CCBE	Cadmium-114	-0.00600	0.04	0.100	ug/L	
SKF0040-CCBE	Zinc-66	-3.99	2.92	6.00	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: HydroGeoLogic, Inc.
Instrument ID: ICPMS2
Sequence: SKF0040

SDG: 22E0328
Project: Portland Harbor Superfund Site 2021-2
Calibration: FF00014
Date Analyzed: 06/03/22 02:50

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0040-CCBE	Zinc-67	-3.37	0.94	6.00	ug/L	
SKF0040-IBLD	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SKF0040-IBLD	Cadmium-114	0.00100	0.04	0.100	ug/L	
SKF0040-IBLD	Zinc-66	-4.20	2.92	6.00	ug/L	
SKF0040-IBLD	Zinc-67	-3.46	0.94	6.00	ug/L	
SKF0040-CCBF	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SKF0040-CCBF	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SKF0040-CCBF	Zinc-66	-4.22	2.92	6.00	ug/L	
SKF0040-CCBF	Zinc-67	-3.47	0.94	6.00	ug/L	
SKF0040-IBLE	Cadmium-111	-0.0170	0.03	0.100	ug/L	
SKF0040-IBLE	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SKF0040-IBLE	Zinc-66	-4.21	2.92	6.00	ug/L	
SKF0040-IBLE	Zinc-67	-3.55	0.94	6.00	ug/L	
SKF0040-CCBG	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SKF0040-CCBG	Cadmium-114	0.00100	0.04	0.100	ug/L	
SKF0040-CCBG	Zinc-66	-4.25	2.92	6.00	ug/L	
SKF0040-CCBG	Zinc-67	-3.51	0.94	6.00	ug/L	
SKF0040-IBLF	Cadmium-111	-0.0170	0.03	0.100	ug/L	
SKF0040-IBLF	Cadmium-114	0.00500	0.04	0.100	ug/L	
SKF0040-IBLF	Zinc-66	-4.20	2.92	6.00	ug/L	
SKF0040-IBLF	Zinc-67	-3.56	0.94	6.00	ug/L	
SKF0040-CCBH	Cadmium-111	0.00	0.03	0.100	ug/L	
SKF0040-CCBH	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SKF0040-CCBH	Zinc-66	-4.22	2.92	6.00	ug/L	
SKF0040-CCBH	Zinc-67	-3.56	0.94	6.00	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SKF0017-CAL1	XDT_m1220601-006	NA	06/01/22 14:24
CAL 1 - LOW CHECK	SKF0017-CAL2	XDT_m1220601-007	NA	06/01/22 14:29
CAL 2	SKF0017-CAL3	XDT_m1220601-008	NA	06/01/22 14:34
CAL 3	SKF0017-CAL4	XDT_m1220601-009	NA	06/01/22 14:39
CAL 4	SKF0017-CAL5	XDT_m1220601-010	NA	06/01/22 14:44
CAL 5	SKF0017-CAL6	XDT_m1220601-011	NA	06/01/22 14:51
RINSE	SKF0017-IBL1	XDT_m1220601-012	NA	06/01/22 14:59
Initial Cal Check	SKF0017-ICV1	XDT_m1220601-014	NA	06/01/22 15:06
Initial Cal Blank	SKF0017-ICB1	XDT_m1220601-015	NA	06/01/22 15:13
Calibration Check	SKF0017-CCV1	XDT_m1220601-016	NA	06/01/22 15:18
Calibration Blank	SKF0017-CCB1	XDT_m1220601-017	NA	06/01/22 15:26
Instrument RL Check	SKF0017-CRL1	XDT_m1220601-019	NA	06/01/22 15:40
Interference Check A	SKF0017-IFA1	XDT_m1220601-020	NA	06/01/22 15:45
Interference Check B	SKF0017-IFB1	XDT_m1220601-021	NA	06/01/22 15:50
LR200	SKF0017-HCV1	XDT_m1220601-022	NA	06/01/22 15:55
LR300	SKF0017-HCV2	XDT_m1220601-023	NA	06/01/22 16:00
Instrument Blank	SKF0017-IBL2	XDT_m1220601-024	NA	06/01/22 16:08
Instrument Blank	SKF0017-IBL3	XDT_m1220601-025	NA	06/01/22 16:19
Calibration Check	SKF0017-CCV2	XDT_m1220601-026	NA	06/01/22 16:25
Calibration Blank	SKF0017-CCB2	XDT_m1220601-027	NA	06/01/22 16:33
Blank	BKF0020-BLK1	XDT_m1220601-028	Water	06/01/22 16:44
LCS	BKF0020-BS1	XDT_m1220601-029	Water	06/01/22 16:49
ZZZZZ	22E0430-01	XDT_m1220601_PRE-030	Water	06/01/22 16:58
ZZZZZ	22E0430-01	XDT_m1220601_PRE-030	Water	06/01/22 16:58
ZZZZZ	22E0430-01	XDT_m1220601_PRE-030	Water	06/01/22 16:58
ZZZZZ	22E0430-01	XDT_m1220601_PRE-030	Water	06/01/22 16:58
Calibration Check	SKF0017-CCV3	XDT_m1220601-038	NA	06/01/22 17:40
Calibration Blank	SKF0017-CCB3	XDT_m1220601-039	NA	06/01/22 17:48
Instrument Blank	SKF0017-IBL4	XDT_m1220601-048	NA	06/01/22 18:45

Analytical Resources, LLC
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ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SKF0017-IBL5	XDT_m1220601-049	NA	06/01/22 18:50
Calibration Check	SKF0017-CCV4	XDT_m1220601-050	NA	06/01/22 18:55
Calibration Blank	SKF0017-CCB4	XDT_m1220601-051	NA	06/01/22 19:03
Instrument Blank	SKF0017-IBL6	XDT_m1220601-061	NA	06/01/22 19:56
Calibration Check	SKF0017-CCV5	XDT_m1220601-062	NA	06/01/22 20:01
Calibration Blank	SKF0017-CCB5	XDT_m1220601-063	NA	06/01/22 20:09
Calibration Check	SKF0017-CCV6	XDT_m1220601-065	NA	06/01/22 20:28
Calibration Blank	SKF0017-CCB6	XDT_m1220601-066	NA	06/01/22 20:35
ZZZZZ	BKE0677-BLK1	XDT_m1220601-067	Solid	06/01/22 20:42
ZZZZZ	BKE0677-BS1	XDT_m1220601-068	Solid	06/01/22 20:47
ZZZZZ	22E0245-01	XDT_m1220601-069	Solid	06/01/22 20:52
ZZZZZ	22E0245-01	XDT_m1220601-069	Solid	06/01/22 20:52
ZZZZZ	22E0245-01	XDT_m1220601-069	Solid	06/01/22 20:52
ZZZZZ	22E0245-01	XDT_m1220601-069	Solid	06/01/22 20:52
ZZZZZ	22E0245-01	XDT_m1220601-069	Solid	06/01/22 20:52
ZZZZZ	22E0245-01	XDT_m1220601-069	Solid	06/01/22 20:52
ZZZZZ	22E0245-02	XDT_m1220601-070	Solid	06/01/22 20:58
ZZZZZ	22E0245-02	XDT_m1220601-070	Solid	06/01/22 20:58
ZZZZZ	22E0245-02	XDT_m1220601-070	Solid	06/01/22 20:58
ZZZZZ	22E0245-02	XDT_m1220601-070	Solid	06/01/22 20:58
ZZZZZ	22E0245-02	XDT_m1220601-070	Solid	06/01/22 20:58
ZZZZZ	22E0245-02	XDT_m1220601-070	Solid	06/01/22 20:58
ZZZZZ	22E0245-04	XDT_m1220601-071	Solid	06/01/22 21:05
ZZZZZ	22E0245-04	XDT_m1220601-071	Solid	06/01/22 21:05
ZZZZZ	22E0245-04	XDT_m1220601-071	Solid	06/01/22 21:05
ZZZZZ	22E0245-04	XDT_m1220601-071	Solid	06/01/22 21:05
ZZZZZ	22E0245-04	XDT_m1220601-071	Solid	06/01/22 21:05
ZZZZZ	22E0245-04	XDT_m1220601-071	Solid	06/01/22 21:05
ZZZZZ	22E0245-05	XDT_m1220601-072	Solid	06/01/22 21:10

Analytical Resources, LLC
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ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22E0245-05	XDT_m1220601-072	Solid	06/01/22 21:10
ZZZZZ	22E0245-05	XDT_m1220601-072	Solid	06/01/22 21:10
ZZZZZ	22E0245-05	XDT_m1220601-072	Solid	06/01/22 21:10
ZZZZZ	22E0245-05	XDT_m1220601-072	Solid	06/01/22 21:10
ZZZZZ	22E0245-05	XDT_m1220601-072	Solid	06/01/22 21:10
ZZZZZ	22E0245-06	XDT_m1220601-073	Solid	06/01/22 21:15
ZZZZZ	22E0245-06	XDT_m1220601-073	Solid	06/01/22 21:15
ZZZZZ	22E0245-06	XDT_m1220601-073	Solid	06/01/22 21:15
ZZZZZ	22E0245-06	XDT_m1220601-073	Solid	06/01/22 21:15
ZZZZZ	22E0245-06	XDT_m1220601-073	Solid	06/01/22 21:15
ZZZZZ	22E0245-06	XDT_m1220601-073	Solid	06/01/22 21:15
ZZZZZ	22E0245-07	XDT_m1220601-074	Solid	06/01/22 21:20
ZZZZZ	22E0245-07	XDT_m1220601-074	Solid	06/01/22 21:20
ZZZZZ	22E0245-07	XDT_m1220601-074	Solid	06/01/22 21:20
ZZZZZ	22E0245-07	XDT_m1220601-074	Solid	06/01/22 21:20
ZZZZZ	22E0245-07	XDT_m1220601-074	Solid	06/01/22 21:20
ZZZZZ	22E0245-07	XDT_m1220601-074	Solid	06/01/22 21:20
ZZZZZ	22E0245-08	XDT_m1220601-075	Solid	06/01/22 21:25
ZZZZZ	22E0245-08	XDT_m1220601-075	Solid	06/01/22 21:25
ZZZZZ	22E0245-08	XDT_m1220601-075	Solid	06/01/22 21:25
ZZZZZ	22E0245-08	XDT_m1220601-075	Solid	06/01/22 21:25
ZZZZZ	22E0245-08	XDT_m1220601-075	Solid	06/01/22 21:25
ZZZZZ	22E0245-08	XDT_m1220601-075	Solid	06/01/22 21:25
Instrument Blank	SKF0017-IBL7	XDT_m1220601-076	NA	06/01/22 21:32
Calibration Check	SKF0017-CCV7	XDT_m1220601-077	NA	06/01/22 21:37
Calibration Blank	SKF0017-CCB7	XDT_m1220601-078	NA	06/01/22 21:44
ZZZZZ	22E0245-09	XDT_m1220601-079	Solid	06/01/22 21:49
ZZZZZ	22E0245-09	XDT_m1220601-079	Solid	06/01/22 21:49
ZZZZZ	22E0245-09	XDT_m1220601-079	Solid	06/01/22 21:49

Analytical Resources, LLC
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ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22E0245-09	XDT_m1220601-079	Solid	06/01/22 21:49
ZZZZZ	22E0245-09	XDT_m1220601-079	Solid	06/01/22 21:49
ZZZZZ	22E0245-09	XDT_m1220601-079	Solid	06/01/22 21:49
ZZZZZ	22E0245-10	XDT_m1220601-080	Solid	06/01/22 21:54
ZZZZZ	22E0245-10	XDT_m1220601-080	Solid	06/01/22 21:54
ZZZZZ	22E0245-10	XDT_m1220601-080	Solid	06/01/22 21:54
ZZZZZ	22E0245-10	XDT_m1220601-080	Solid	06/01/22 21:54
ZZZZZ	22E0245-10	XDT_m1220601-080	Solid	06/01/22 21:54
ZZZZZ	22E0245-11	XDT_m1220601-081	Solid	06/01/22 21:59
ZZZZZ	22E0245-11	XDT_m1220601-081	Solid	06/01/22 21:59
ZZZZZ	22E0245-11	XDT_m1220601-081	Solid	06/01/22 21:59
ZZZZZ	22E0245-11	XDT_m1220601-081	Solid	06/01/22 21:59
ZZZZZ	22E0245-11	XDT_m1220601-081	Solid	06/01/22 21:59
ZZZZZ	22E0245-11	XDT_m1220601-081	Solid	06/01/22 21:59
ZZZZZ	22E0245-13	XDT_m1220601-082	Solid	06/01/22 22:04
ZZZZZ	22E0245-13	XDT_m1220601-082	Solid	06/01/22 22:04
ZZZZZ	22E0245-13	XDT_m1220601-082	Solid	06/01/22 22:04
ZZZZZ	22E0245-13	XDT_m1220601-082	Solid	06/01/22 22:04
ZZZZZ	22E0245-13	XDT_m1220601-082	Solid	06/01/22 22:04
ZZZZZ	22E0245-13	XDT_m1220601-082	Solid	06/01/22 22:04
ZZZZZ	22E0245-14	XDT_m1220601-083	Solid	06/01/22 22:09
ZZZZZ	22E0245-14	XDT_m1220601-083	Solid	06/01/22 22:09
ZZZZZ	22E0245-14	XDT_m1220601-083	Solid	06/01/22 22:09
ZZZZZ	22E0245-14	XDT_m1220601-083	Solid	06/01/22 22:09
ZZZZZ	22E0245-14	XDT_m1220601-083	Solid	06/01/22 22:09
ZZZZZ	22E0245-14	XDT_m1220601-083	Solid	06/01/22 22:09
ZZZZZ	22E0245-16	XDT_m1220601-084	Solid	06/01/22 22:14
ZZZZZ	22E0245-16	XDT_m1220601-084	Solid	06/01/22 22:14
ZZZZZ	22E0245-16	XDT_m1220601-084	Solid	06/01/22 22:14

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Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22E0245-16	XDT_m1220601-084	Solid	06/01/22 22:14
ZZZZZ	22E0245-16	XDT_m1220601-084	Solid	06/01/22 22:14
ZZZZZ	22E0245-16	XDT_m1220601-084	Solid	06/01/22 22:14
Instrument Blank	SKF0017-IBL8	XDT_m1220601-088	NA	06/01/22 22:36
Calibration Check	SKF0017-CCV8	XDT_m1220601-089	NA	06/01/22 22:41
Calibration Blank	SKF0017-CCB8	XDT_m1220601-090	NA	06/01/22 22:48
ZZZZZ	BKE0771-BLK1	XDT_m1220601-091	Solid	06/01/22 22:53
ZZZZZ	BKE0771-BS1	XDT_m1220601-092	Solid	06/01/22 22:58
ZZZZZ	22E0234-01	XDT_m1220601-093	Solid	06/01/22 23:03
ZZZZZ	22E0234-01	XDT_m1220601-093	Solid	06/01/22 23:03
ZZZZZ	22E0234-01	XDT_m1220601-093	Solid	06/01/22 23:03
ZZZZZ	22E0234-01	XDT_m1220601-093	Solid	06/01/22 23:03
ZZZZZ	22E0234-02	XDT_m1220601-094	Solid	06/01/22 23:08
ZZZZZ	22E0234-02	XDT_m1220601-094	Solid	06/01/22 23:08
ZZZZZ	22E0234-02	XDT_m1220601-094	Solid	06/01/22 23:08
ZZZZZ	22E0234-02	XDT_m1220601-094	Solid	06/01/22 23:08
ZZZZZ	22E0234-03	XDT_m1220601-095	Solid	06/01/22 23:13
ZZZZZ	22E0234-03	XDT_m1220601-095	Solid	06/01/22 23:13
ZZZZZ	22E0234-03	XDT_m1220601-095	Solid	06/01/22 23:13
ZZZZZ	22E0234-03	XDT_m1220601-095	Solid	06/01/22 23:13
ZZZZZ	22E0234-04	XDT_m1220601-096	Solid	06/01/22 23:18
ZZZZZ	22E0234-04	XDT_m1220601-096	Solid	06/01/22 23:18
ZZZZZ	22E0234-04	XDT_m1220601-096	Solid	06/01/22 23:18
ZZZZZ	22E0234-04	XDT_m1220601-096	Solid	06/01/22 23:18
ZZZZZ	22E0245-03	XDT_m1220601-097	Solid	06/01/22 23:24
ZZZZZ	22E0245-03	XDT_m1220601-097	Solid	06/01/22 23:24
ZZZZZ	22E0245-03	XDT_m1220601-097	Solid	06/01/22 23:24
ZZZZZ	22E0245-03	XDT_m1220601-097	Solid	06/01/22 23:24
ZZZZZ	22E0245-03	XDT_m1220601-097	Solid	06/01/22 23:24

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22E0245-03	XDT_m1220601-097	Solid	06/01/22 23:24
ZZZZZ	22E0245-12	XDT_m1220601-098	Solid	06/01/22 23:29
ZZZZZ	22E0245-12	XDT_m1220601-098	Solid	06/01/22 23:29
ZZZZZ	22E0245-12	XDT_m1220601-098	Solid	06/01/22 23:29
ZZZZZ	22E0245-12	XDT_m1220601-098	Solid	06/01/22 23:29
ZZZZZ	22E0245-12	XDT_m1220601-098	Solid	06/01/22 23:29
ZZZZZ	22E0245-12	XDT_m1220601-098	Solid	06/01/22 23:29
ZZZZZ	22E0245-15	XDT_m1220601-099	Solid	06/01/22 23:34
ZZZZZ	22E0245-15	XDT_m1220601-099	Solid	06/01/22 23:34
ZZZZZ	22E0245-15	XDT_m1220601-099	Solid	06/01/22 23:34
ZZZZZ	22E0245-15	XDT_m1220601-099	Solid	06/01/22 23:34
ZZZZZ	22E0245-15	XDT_m1220601-099	Solid	06/01/22 23:34
ZZZZZ	22E0245-15	XDT_m1220601-099	Solid	06/01/22 23:34
Instrument Blank	SKF0017-IBL9	XDT_m1220601-100	NA	06/01/22 23:41
Calibration Check	SKF0017-CCV9	XDT_m1220601-101	NA	06/01/22 23:46
Calibration Blank	SKF0017-CCB9	XDT_m1220601-102	NA	06/01/22 23:53
ZZZZZ	22E0234-05	XDT_m1220601-103	Solid	06/01/22 23:58
ZZZZZ	22E0234-05	XDT_m1220601-103	Solid	06/01/22 23:58
ZZZZZ	22E0234-05	XDT_m1220601-103	Solid	06/01/22 23:58
ZZZZZ	22E0234-05	XDT_m1220601-103	Solid	06/01/22 23:58
ZZZZZ	22E0234-06	XDT_m1220601-104	Solid	06/02/22 00:03
ZZZZZ	22E0234-06	XDT_m1220601-104	Solid	06/02/22 00:03
ZZZZZ	22E0234-06	XDT_m1220601-104	Solid	06/02/22 00:03
ZZZZZ	22E0234-06	XDT_m1220601-104	Solid	06/02/22 00:03
ZZZZZ	22E0234-07	XDT_m1220601-105	Solid	06/02/22 00:08
ZZZZZ	22E0234-07	XDT_m1220601-105	Solid	06/02/22 00:08
ZZZZZ	22E0234-07	XDT_m1220601-105	Solid	06/02/22 00:08
ZZZZZ	22E0234-07	XDT_m1220601-105	Solid	06/02/22 00:08
ZZZZZ	22E0234-10	XDT_m1220601-106	Solid	06/02/22 00:13

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22E0234-10	XDT_m1220601-106	Solid	06/02/22 00:13
ZZZZZ	22E0234-10	XDT_m1220601-106	Solid	06/02/22 00:13
ZZZZZ	22E0234-10	XDT_m1220601-106	Solid	06/02/22 00:13
ZZZZZ	BKE0771-SRM1	XDT_m1220601-111	Solid	06/02/22 00:40
Instrument Blank	SKF0017-IBLA	XDT_m1220601-112	NA	06/02/22 00:46
Calibration Check	SKF0017-CCVA	XDT_m1220601-113	NA	06/02/22 00:51
Calibration Blank	SKF0017-CCBA	XDT_m1220601-114	NA	06/02/22 00:59
ZZZZZ	BKF0010-BLK1	XDT_m1220601-117	Solid	06/02/22 01:14
ZZZZZ	BKF0010-BS1	XDT_m1220601-118	Solid	06/02/22 01:19
ZZZZZ	22E0234-08	XDT_m1220601-119	Solid	06/02/22 01:24
ZZZZZ	22E0234-08	XDT_m1220601-119	Solid	06/02/22 01:24
ZZZZZ	22E0234-08	XDT_m1220601-119	Solid	06/02/22 01:24
ZZZZZ	22E0234-08	XDT_m1220601-119	Solid	06/02/22 01:24
ZZZZZ	22E0234-09	XDT_m1220601-120	Solid	06/02/22 01:29
ZZZZZ	22E0234-09	XDT_m1220601-120	Solid	06/02/22 01:29
ZZZZZ	22E0234-09	XDT_m1220601-120	Solid	06/02/22 01:29
ZZZZZ	22E0234-09	XDT_m1220601-120	Solid	06/02/22 01:29
ZZZZZ	22E0234-11	XDT_m1220601-121	Solid	06/02/22 01:34
ZZZZZ	22E0234-11	XDT_m1220601-121	Solid	06/02/22 01:34
ZZZZZ	22E0234-11	XDT_m1220601-121	Solid	06/02/22 01:34
ZZZZZ	22E0234-11	XDT_m1220601-121	Solid	06/02/22 01:34
ZZZZZ	22E0234-12	XDT_m1220601-122	Solid	06/02/22 01:39
ZZZZZ	22E0234-12	XDT_m1220601-122	Solid	06/02/22 01:39
ZZZZZ	22E0234-12	XDT_m1220601-122	Solid	06/02/22 01:39
ZZZZZ	22E0234-12	XDT_m1220601-122	Solid	06/02/22 01:39
ZZZZZ	22E0234-13	XDT_m1220601-123	Solid	06/02/22 01:44
ZZZZZ	22E0234-13	XDT_m1220601-123	Solid	06/02/22 01:44
ZZZZZ	22E0234-13	XDT_m1220601-123	Solid	06/02/22 01:44
ZZZZZ	22E0234-13	XDT_m1220601-123	Solid	06/02/22 01:44

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22E0234-14	XDT_m1220601-124	Solid	06/02/22 01:49
ZZZZZ	22E0234-14	XDT_m1220601-124	Solid	06/02/22 01:49
ZZZZZ	22E0234-14	XDT_m1220601-124	Solid	06/02/22 01:49
ZZZZZ	22E0234-14	XDT_m1220601-124	Solid	06/02/22 01:49
Calibration Check	SKF0017-CCVB	XDT_m1220601-125	NA	06/02/22 01:57
Calibration Blank	SKF0017-CCBB	XDT_m1220601-126	NA	06/02/22 02:05
ZZZZZ	22E0295-01	XDT_m1220601-131	Solid	06/02/22 02:34
ZZZZZ	22E0295-01	XDT_m1220601-131	Solid	06/02/22 02:34
ZZZZZ	22E0295-01	XDT_m1220601-131	Solid	06/02/22 02:34
ZZZZZ	22E0295-01	XDT_m1220601-131	Solid	06/02/22 02:34
Instrument Blank	SKF0017-IBLB	XDT_m1220601-136	NA	06/02/22 03:01
Calibration Check	SKF0017-CCVC	XDT_m1220601-137	NA	06/02/22 03:06
Calibration Blank	SKF0017-CCBC	XDT_m1220601-138	NA	06/02/22 03:13
Calibration Check	SKF0017-CCVD	XDT_m1220601-140	NA	06/02/22 03:23
Calibration Blank	SKF0017-CCBD	XDT_m1220601-141	NA	06/02/22 03:31
SIB-SW-AAM131-CAR-ST-050522	22E0328-01	XDT_m1220601-142	Water	06/02/22 03:36
SIB-SW-AAM131-CAR-ST-050522	22E0328-01	XDT_m1220601-142	Water	06/02/22 03:36
SIB-SW-AAM131-CAR-ST-050522	22E0328-01	XDT_m1220601-142	Water	06/02/22 03:36
SIB-SW-AAQ005-CAR-ST-050522	22E0328-02	XDT_m1220601-143	Water	06/02/22 03:41
SIB-SW-AAQ005-CAR-ST-050522	22E0328-02	XDT_m1220601-143	Water	06/02/22 03:41
SIB-SW-AAQ005-CAR-ST-050522	22E0328-02	XDT_m1220601-143	Water	06/02/22 03:41
SIB-SW-AAM169-CAR-ST-050522	22E0328-03	XDT_m1220601-144	Water	06/02/22 03:46
SIB-SW-AAM169-CAR-ST-050522	22E0328-03	XDT_m1220601-144	Water	06/02/22 03:46
SIB-SW-AAM169-CAR-ST-050522	22E0328-03	XDT_m1220601-144	Water	06/02/22 03:46
SIB-SW-AAM107-CAR-ST-050522	22E0328-04	XDT_m1220601-145	Water	06/02/22 03:51
SIB-SW-AAM107-CAR-ST-050522	22E0328-04	XDT_m1220601-145	Water	06/02/22 03:51
SIB-SW-AAM107-CAR-ST-050522	22E0328-04	XDT_m1220601-145	Water	06/02/22 03:51
SIB-SW-AAP957-CAR-ST-050522	22E0328-05	XDT_m1220601-146	Water	06/02/22 03:56
SIB-SW-AAP957-CAR-ST-050522	22E0328-05	XDT_m1220601-146	Water	06/02/22 03:56

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0017	Instrument:	ICPMS1
		Calibration:	FF00009

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
SIB-SW-AAP957-CAR-ST-050522	22E0328-05	XDT_m1220601-146	Water	06/02/22 03:56
SIB-SW-WR198-050522	22E0328-06	XDT_m1220601-147	Water	06/02/22 04:01
SIB-SW-WR198-050522	22E0328-06	XDT_m1220601-147	Water	06/02/22 04:01
SIB-SW-WR198-050522	22E0328-06	XDT_m1220601-147	Water	06/02/22 04:01
SIB-SW-WR186-050522	22E0328-07	XDT_m1220601-148	Water	06/02/22 04:06
SIB-SW-WR186-050522	22E0328-07	XDT_m1220601-148	Water	06/02/22 04:06
SIB-SW-WR15-050522	22E0328-08	XDT_m1220601-149	Water	06/02/22 04:11
SIB-SW-WR15-050522	22E0328-08	XDT_m1220601-149	Water	06/02/22 04:11
SIB-SW-WR15-050522	22E0328-08	XDT_m1220601-149	Water	06/02/22 04:11
SIB-SW-WR428-050522	22E0328-09	XDT_m1220601-150	Water	06/02/22 04:17
SIB-SW-WR428-050522	22E0328-09	XDT_m1220601-150	Water	06/02/22 04:17
SIB-SW-WR428-050522	22E0328-09	XDT_m1220601-150	Water	06/02/22 04:17
Instrument Blank	SKF0017-IBLC	XDT_m1220601-151	NA	06/02/22 04:23
Calibration Check	SKF0017-CCVE	XDT_m1220601-152	NA	06/02/22 04:28
Calibration Blank	SKF0017-CCBE	XDT_m1220601-153	NA	06/02/22 04:36
SIB-SW-WR71-050522	22E0328-10	XDT_m1220601-154	Water	06/02/22 04:41
SIB-SW-WR71-050522	22E0328-10	XDT_m1220601-154	Water	06/02/22 04:41
SIB-SW-WR71-050522	22E0328-10	XDT_m1220601-154	Water	06/02/22 04:41
Instrument Blank	SKF0017-IBLD	XDT_m1220601-155	NA	06/02/22 04:46
Instrument Blank	SKF0017-IBLE	XDT_m1220601-163	NA	06/02/22 05:30
Calibration Check	SKF0017-CCVF	XDT_m1220601-164	NA	06/02/22 05:35
Calibration Blank	SKF0017-CCBF	XDT_m1220601-165	NA	06/02/22 05:43
Instrument Blank	SKF0017-IBLF	XDT_m1220601-170	NA	06/02/22 06:14
Instrument Blank	SKF0017-IBLG	XDT_m1220601-175	NA	06/02/22 06:44
Calibration Check	SKF0017-CCVG	XDT_m1220601-176	NA	06/02/22 06:49
Calibration Blank	SKF0017-CCBG	XDT_m1220601-177	NA	06/02/22 06:57

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0040	Instrument:	ICPMS2
		Calibration:	FF00014

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SKF0040-CAL1	XDT_m2220602-010	NA	06/02/22 14:58
CAL 1 - LOW CHECK	SKF0040-CAL2	XDT_m2220602-011	NA	06/02/22 15:03
CAL 2	SKF0040-CAL3	XDT_m2220602-012	NA	06/02/22 15:07
CAL 3	SKF0040-CAL4	XDT_m2220602-013	NA	06/02/22 15:13
CAL 4	SKF0040-CAL5	XDT_m2220602-014	NA	06/02/22 15:18
CAL 5	SKF0040-CAL6	XDT_m2220602-015	NA	06/02/22 15:25
RINSE	SKF0040-IBL1	XDT_m2220602-016	NA	06/02/22 15:32
Initial Cal Check	SKF0040-ICV1	XDT_m2220602-018	NA	06/02/22 15:46
Initial Cal Blank	SKF0040-ICB1	XDT_m2220602-019	NA	06/02/22 15:53
Calibration Check	SKF0040-CCV1	XDT_m2220602-020	NA	06/02/22 15:59
Calibration Blank	SKF0040-CCB1	XDT_m2220602-021	NA	06/02/22 16:06
Instrument RL Check	SKF0040-CRL1	XDT_m2220602-022	NA	06/02/22 16:16
Interference Check A	SKF0040-IFA1	XDT_m2220602-023	NA	06/02/22 16:22
Interference Check B	SKF0040-IFB1	XDT_m2220602-024	NA	06/02/22 16:26
LR200	SKF0040-HCV1	XDT_m2220602-025	NA	06/02/22 16:31
LR300	SKF0040-HCV2	XDT_m2220602-027	NA	06/02/22 16:44
Instrument Blank	SKF0040-IBL2	XDT_m2220602-028	NA	06/02/22 16:52
Instrument Blank	SKF0040-IBL3	XDT_m2220602-029	NA	06/02/22 16:58
Calibration Check	SKF0040-CCV2	XDT_m2220602-030	NA	06/02/22 17:05
Calibration Blank	SKF0040-CCB2	XDT_m2220602-031	NA	06/02/22 17:13
Calibration Check	SKF0040-CCV3	XDT_m2220602-033	NA	06/02/22 17:23
Calibration Blank	SKF0040-CCB3	XDT_m2220602-034	NA	06/02/22 17:31
ZZZZZ	BKF0052-BLK1	XDT_m2220602-037	Water	06/02/22 17:46
ZZZZZ	BKF0052-BS1	XDT_m2220602-038	Water	06/02/22 17:50
ZZZZZ	22E0245-10	XDT_m2220602-043	Solid	06/02/22 18:22
Instrument Blank	SKF0040-IBL4	XDT_m2220602-044	NA	06/02/22 18:27
Calibration Check	SKF0040-CCV4	XDT_m2220602-045	NA	06/02/22 18:32
Calibration Blank	SKF0040-CCB4	XDT_m2220602-047	NA	06/02/22 18:40
Calibration Check	SKF0040-CCV5	XDT_m2220602-049	NA	06/02/22 18:54

Analytical Resources, LLC
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ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0040	Instrument:	ICPMS2
		Calibration:	FF00014

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SKF0040-CCB5	XDT_m2220602-050	NA	06/02/22 19:02
ZZZZZ	22E0436-01	XDT_m2220602-056	Water	06/02/22 19:36
ZZZZZ	22E0436-01	XDT_m2220602-056	Water	06/02/22 19:36
ZZZZZ	22E0436-01	XDT_m2220602-056	Water	06/02/22 19:36
ZZZZZ	22E0436-01	XDT_m2220602-056	Water	06/02/22 19:36
ZZZZZ	22E0436-01	XDT_m2220602-056	Water	06/02/22 19:36
ZZZZZ	22E0436-01	XDT_m2220602-056	Water	06/02/22 19:36
SIB-SW-WR186-050522	22E0328-07	XDT_m2220602-059	Water	06/02/22 19:56
SIB-SW-WR186-050522	22E0328-07	XDT_m2220602-059	Water	06/02/22 19:56
Instrument Blank	SKF0040-IBL5	XDT_m2220602-060	NA	06/02/22 20:01
Calibration Check	SKF0040-CCV6	XDT_m2220602-061	NA	06/02/22 20:06
Calibration Blank	SKF0040-CCB6	XDT_m2220602-062	NA	06/02/22 20:13
SIB-SW-AAM131-CAR-ST-050522	22E0328-01	XDT_m2220602-063	Water	06/02/22 20:18
SIB-SW-AAQ005-CAR-ST-050522	22E0328-02	XDT_m2220602-064	Water	06/02/22 20:23
SIB-SW-AAM169-CAR-ST-050522	22E0328-03	XDT_m2220602-065	Water	06/02/22 20:28
SIB-SW-AAM107-CAR-ST-050522	22E0328-04	XDT_m2220602-066	Water	06/02/22 20:33
SIB-SW-AAP957-CAR-ST-050522	22E0328-05	XDT_m2220602-067	Water	06/02/22 20:38
SIB-SW-WR198-050522	22E0328-06	XDT_m2220602-068	Water	06/02/22 20:43
SIB-SW-WR15-050522	22E0328-08	XDT_m2220602-069	Water	06/02/22 20:48
SIB-SW-WR428-050522	22E0328-09	XDT_m2220602-070	Water	06/02/22 20:53
SIB-SW-WR71-050522	22E0328-10	XDT_m2220602-071	Water	06/02/22 20:57
Instrument Blank	SKF0040-IBL6	XDT_m2220602-072	NA	06/02/22 21:02
Calibration Check	SKF0040-CCV7	XDT_m2220602-073	NA	06/02/22 21:07
Calibration Blank	SKF0040-CCB7	XDT_m2220602-074	NA	06/02/22 21:15
ZZZZZ	BKF0021-BLK1	XDT_m2220602-075	Solid	06/02/22 21:20
ZZZZZ	BKF0021-BS1	XDT_m2220602-076	Solid	06/02/22 21:25
ZZZZZ	BKF0038-BLK1	XDT_m2220602-077	Solid	06/02/22 21:30
ZZZZZ	BKF0038-BS1	XDT_m2220602-078	Solid	06/02/22 21:34
ZZZZZ	22E0303-01	XDT_m2220602-079	Solid	06/02/22 21:39

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0040	Instrument:	ICPMS2
		Calibration:	FF00014

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22E0303-01	XDT_m2220602-079	Solid	06/02/22 21:39
ZZZZZ	22E0303-01	XDT_m2220602-079	Solid	06/02/22 21:39
ZZZZZ	22E0303-01	XDT_m2220602-079	Solid	06/02/22 21:39
ZZZZZ	22E0303-01	XDT_m2220602-079	Solid	06/02/22 21:39
ZZZZZ	22E0303-01	XDT_m2220602-079	Solid	06/02/22 21:39
ZZZZZ	22E0303-03	XDT_m2220602-080	Solid	06/02/22 21:44
ZZZZZ	22E0303-03	XDT_m2220602-080	Solid	06/02/22 21:44
ZZZZZ	22E0303-03	XDT_m2220602-080	Solid	06/02/22 21:44
ZZZZZ	22E0303-03	XDT_m2220602-080	Solid	06/02/22 21:44
ZZZZZ	22E0303-03	XDT_m2220602-080	Solid	06/02/22 21:44
ZZZZZ	22E0303-03	XDT_m2220602-080	Solid	06/02/22 21:44
Instrument Blank	SKF0040-IBL7	XDT_m2220602-084	NA	06/02/22 22:09
Calibration Check	SKF0040-CCV8	XDT_m2220602-085	NA	06/02/22 22:14
Calibration Blank	SKF0040-CCB8	XDT_m2220602-086	NA	06/02/22 22:22
Calibration Check	SKF0040-CCV9	XDT_m2220602-088	NA	06/02/22 22:31
Calibration Blank	SKF0040-CCB9	XDT_m2220602-089	NA	06/02/22 22:39
ZZZZZ	22E0303-04	XDT_m2220602-090	Solid	06/02/22 22:44
ZZZZZ	22E0303-05	XDT_m2220602-091	Solid	06/02/22 22:49
ZZZZZ	22E0303-06	XDT_m2220602-092	Solid	06/02/22 22:54
ZZZZZ	22E0438-01	XDT_m2220602-093	Solid	06/02/22 22:59
ZZZZZ	22E0438-02	XDT_m2220602-094	Solid	06/02/22 23:04
ZZZZZ	22E0438-03	XDT_m2220602-095	Solid	06/02/22 23:09
Instrument Blank	SKF0040-IBL8	XDT_m2220602-099	NA	06/02/22 23:31
Calibration Check	SKF0040-CCVA	XDT_m2220602-100	NA	06/02/22 23:35
Calibration Blank	SKF0040-CCBA	XDT_m2220602-101	NA	06/02/22 23:43
ZZZZZ	22E0310-01	XDT_m2220602-105	Water	06/03/22 00:03
Instrument Blank	SKF0040-IBL9	XDT_m2220602-106	NA	06/03/22 00:12
ZZZZZ	22E0371-01	XDT_m2220602-107	Solid	06/03/22 00:17
Instrument Blank	SKF0040-IBLA	XDT_m2220602-111	NA	06/03/22 00:35

Analytical Resources, LLC
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ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0040	Instrument:	ICPMS2
		Calibration:	FF00014

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SKF0040-CCVB	XDT_m2220602-112	NA	06/03/22 00:39
Calibration Blank	SKF0040-CCBB	XDT_m2220602-113	NA	06/03/22 00:46
Instrument Blank	SKF0040-IBLB	XDT_m2220602-123	NA	06/03/22 01:29
Calibration Check	SKF0040-CCVC	XDT_m2220602-124	NA	06/03/22 01:33
Calibration Blank	SKF0040-CCBC	XDT_m2220602-125	NA	06/03/22 01:39
Calibration Check	SKF0040-CCVD	XDT_m2220602-127	NA	06/03/22 01:47
Calibration Blank	SKF0040-CCBD	XDT_m2220602-128	NA	06/03/22 01:54
ZZZZZ	22E0366-02	XDT_m2220602-129	Solid	06/03/22 01:58
ZZZZZ	22E0366-04	XDT_m2220602-130	Solid	06/03/22 02:02
ZZZZZ	22E0366-07	XDT_m2220602-131	Solid	06/03/22 02:05
ZZZZZ	22E0366-09	XDT_m2220602-133	Solid	06/03/22 02:13
ZZZZZ	22E0366-12	XDT_m2220602-135	Solid	06/03/22 02:21
ZZZZZ	22E0366-14	XDT_m2220602-136	Solid	06/03/22 02:26
ZZZZZ	22E0371-02	XDT_m2220602-137	Solid	06/03/22 02:33
Instrument Blank	SKF0040-IBLC	XDT_m2220602-138	NA	06/03/22 02:38
Calibration Check	SKF0040-CCVE	XDT_m2220602-139	NA	06/03/22 02:43
Calibration Blank	SKF0040-CCBE	XDT_m2220602-140	NA	06/03/22 02:50
ZZZZZ	22E0371-03	XDT_m2220602-141	Solid	06/03/22 02:55
ZZZZZ	22E0371-03	XDT_m2220602-141	Solid	06/03/22 02:55
ZZZZZ	22E0371-04	XDT_m2220602-142	Solid	06/03/22 03:00
ZZZZZ	22E0371-04	XDT_m2220602-142	Solid	06/03/22 03:00
ZZZZZ	22E0371-05	XDT_m2220602-143	Solid	06/03/22 03:05
ZZZZZ	22E0371-05	XDT_m2220602-143	Solid	06/03/22 03:05
ZZZZZ	22E0371-05	XDT_m2220602-143	Solid	06/03/22 03:05
ZZZZZ	22E0371-07	XDT_m2220602-144	Solid	06/03/22 03:10
ZZZZZ	22E0371-07	XDT_m2220602-144	Solid	06/03/22 03:10
ZZZZZ	22E0371-07	XDT_m2220602-144	Solid	06/03/22 03:10
ZZZZZ	22E0371-08	XDT_m2220602-145	Solid	06/03/22 03:15
ZZZZZ	22E0371-08	XDT_m2220602-145	Solid	06/03/22 03:15

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0040	Instrument:	ICPMS2
		Calibration:	FF00014

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SKF0040-IBLD	XDT_m2220602-150	NA	06/03/22 03:46
Calibration Check	SKF0040-CCVF	XDT_m2220602-151	NA	06/03/22 03:51
Calibration Blank	SKF0040-CCBF	XDT_m2220602-152	NA	06/03/22 03:59
Instrument Blank	SKF0040-IBLE	XDT_m2220602-162	NA	06/03/22 04:57
Calibration Check	SKF0040-CCVG	XDT_m2220602-163	NA	06/03/22 05:02
Calibration Blank	SKF0040-CCBG	XDT_m2220602-164	NA	06/03/22 05:09
Instrument Blank	SKF0040-IBLF	XDT_m2220602-174	NA	06/03/22 06:04
Calibration Check	SKF0040-CCVH	XDT_m2220602-175	NA	06/03/22 06:09
Calibration Blank	SKF0040-CCBH	XDT_m2220602-176	NA	06/03/22 06:17

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS1
Calibration: FF00009
Sequence: SKF0017
Standard ID: K004536

Lab Sample ID	Analyte	True	Found	%R	Units
SKF0017-IFA1	Arsenic-75a	0	0.0270		ug/L
	Cadmium-111	0	0.0900		ug/L
	Cadmium-114	0	0.0790		ug/L
	Copper-63	0	0.0360		ug/L
	Copper-65	0	0.0410		ug/L
	Zinc-66	0	0.4400		ug/L
	Zinc-67	0	0.4490		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS1
Calibration: FF00009
Sequence: SKF0017
Standard ID: K004536

Lab Sample ID	Analyte	True	Found	%R	Units
SKF0017-IFB1	Arsenic-75a	20.000	19.432	97.2	ug/L
	Cadmium-111	20.000	19.655	98.3	ug/L
	Cadmium-114	20.000	19.424	97.1	ug/L
	Copper-63	20.000	19.873	99.4	ug/L
	Copper-65	20.000	19.906	99.5	ug/L
	Zinc-66	20.000	19.509	97.5	ug/L
	Zinc-67	20.000	18.010	90.1	ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS2
Calibration: FF00014
Sequence: SKF0040
Standard ID: K004536

Lab Sample ID	Analyte	True	Found	%R	Units
SKF0040-IFA1	Cadmium-111	0	0.0420		ug/L
	Cadmium-114	0	0.0280		ug/L
	Zinc-66	0	0.5670		ug/L
	Zinc-67	0	0.5260		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS2
Calibration: FF00014
Sequence: SKF0040
Standard ID: K004536

Lab Sample ID	Analyte	True	Found	%R	Units
SKF0040-IFB1	Cadmium-111	20.000	18.925	94.6	ug/L
	Cadmium-114	20.000	19.351	96.8	ug/L
	Zinc-66	20.000	19.274	96.4	ug/L
	Zinc-67	20.000	17.283	86.4	ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS1
Calibration: FF00009
Sequence: SKF0017
Lab Sample ID: SKF0017-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.196	98.0	ug/L	50 - 150
Cadmium-111	0.10000	0.114	114	ug/L	50 - 150
Cadmium-114	0.10000	0.105	105	ug/L	50 - 150
Copper-63	0.50000	0.493	98.6	ug/L	50 - 150
Copper-65	0.50000	0.485	97.0	ug/L	50 - 150
Zinc-66	6.0000	5.86	97.6	ug/L	50 - 150
Zinc-67	6.0000	5.27	87.8	ug/L	50 - 150

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: ICPMS2
Calibration: FF00014
Sequence: SKF0040
Lab Sample ID: SKF0040-CRL1

Analyte	True	Found	%R	Units	QC Limts
Cadmium-111	0.10000	0.116	116	ug/L	50 - 150
Cadmium-114	0.10000	0.0810	81.0	ug/L	50 - 150
Zinc-66	6.0000	5.63	93.9	ug/L	50 - 150
Zinc-67	6.0000	5.03	83.8	ug/L	50 - 150

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Calibration: FF00009
Laboratory ID: SKF0017-HCV1
Sequence: SKF0017
Standard ID: K004841

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	197	-1.4	10.00
Cadmium-111	200.00	199	-0.6	10.00
Cadmium-114	200.00	200	-0.2	10.00
Copper-63	200.00	196	-1.8	10.00
Copper-65	200.00	197	-1.7	10.00
Zinc-66	200.00	196	-2.2	10.00
Zinc-67	200.00	194	-2.9	10.00

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Calibration: FF00009
Laboratory ID: SKF0017-HCV2
Sequence: SKF0017
Standard ID: K004537

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	296	-1.3	10.00
Cadmium-111	300.00	291	-2.8	10.00
Cadmium-114	300.00	292	-2.7	10.00
Copper-63	300.00	290	-3.5	10.00
Copper-65	300.00	288	-4.1	10.00
Zinc-66	300.00	283	-5.6	10.00
Zinc-67	300.00	279	-6.9	10.00

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Calibration: FF00014
Laboratory ID: SKF0040-HCV1
Sequence: SKF0040
Standard ID: K004841

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Cadmium-111	200.00	198	-0.9	10.00
Cadmium-114	200.00	196	-2.2	10.00
Zinc-66	200.00	197	-1.3	10.00
Zinc-67	200.00	192	-3.9	10.00

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Calibration: FF00014
Laboratory ID: SKF0040-HCV2
Sequence: SKF0040
Standard ID: K004537

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Cadmium-111	300.00	277	-7.8	10.00
Cadmium-114	300.00	277	-7.8	10.00
Zinc-66	300.00	270	-10.0	10.00
Zinc-67	300.00	272	-9.5	10.00

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HOLDING TIME SUMMARY

Analysis: EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
SIB-SW-AAM131-CAR-ST-050522 22E0328-01	05/05/22 09:25	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 20:18	28	180	
SIB-SW-AAM131-CAR-ST-050522 22E0328-01	05/05/22 09:25	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 03:36	28	180	
SIB-SW-AAQ005-CAR-ST-050522 22E0328-02	05/05/22 08:45	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 03:41	28	180	
SIB-SW-AAQ005-CAR-ST-050522 22E0328-02	05/05/22 08:45	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 20:23	28	180	
SIB-SW-AAM169-CAR-ST-050522 22E0328-03	05/05/22 14:38	05/18/22 13:02	06/01/22 12:08	26	180	06/02/22 20:28	28	180	
SIB-SW-AAM169-CAR-ST-050522 22E0328-03	05/05/22 14:38	05/18/22 13:02	06/01/22 12:08	26	180	06/02/22 03:46	28	180	
SIB-SW-AAM107-CAR-ST-050522 22E0328-04	05/05/22 15:18	05/18/22 13:02	06/01/22 12:08	26	180	06/02/22 20:33	28	180	
SIB-SW-AAM107-CAR-ST-050522 22E0328-04	05/05/22 15:18	05/18/22 13:02	06/01/22 12:08	26	180	06/02/22 03:51	28	180	
SIB-SW-AAP957-CAR-ST-050522 22E0328-05	05/05/22 16:40	05/18/22 13:02	06/01/22 12:08	26	180	06/02/22 20:38	28	180	
SIB-SW-AAP957-CAR-ST-050522 22E0328-05	05/05/22 16:40	05/18/22 13:02	06/01/22 12:08	26	180	06/02/22 03:56	27	180	
SIB-SW-WR198-050522 22E0328-06	05/05/22 08:40	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 20:43	29	180	
SIB-SW-WR198-050522 22E0328-06	05/05/22 08:40	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 04:01	28	180	
SIB-SW-WR186-050522 22E0328-07	05/05/22 09:12	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 19:56	28	180	
SIB-SW-WR186-050522 22E0328-07	05/05/22 09:12	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 04:06	28	180	
SIB-SW-WR15-050522 22E0328-08	05/05/22 09:25	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 20:48	28	180	
SIB-SW-WR15-050522 22E0328-08	05/05/22 09:25	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 04:11	28	180	
SIB-SW-WR428-050522 22E0328-09	05/05/22 07:00	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 04:17	28	180	
SIB-SW-WR428-050522 22E0328-09	05/05/22 07:00	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 20:53	29	180	
SIB-SW-WR71-050522 22E0328-10	05/05/22 00:00	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 20:57	29	180	
SIB-SW-WR71-050522 22E0328-10	05/05/22 00:00	05/18/22 13:02	06/01/22 12:08	27	180	06/02/22 04:41	28	180	

* Indicates hold time exceedance.

Analytical Resources, LLC
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-202
Matrix: Water
Instrument: ICPMS1

Analyte	MDL	RL	Units
Arsenic-75a	0.0373	0.200	ug/L
Cadmium-111	0.0300	0.100	ug/L
Cadmium-114	0.0400	0.100	ug/L
Copper-63	0.173	0.500	ug/L
Copper-65	0.350	0.500	ug/L
Zinc-66	2.92	6.00	ug/L
Zinc-67	0.940	6.00	ug/L

Analytical Resources, LLC
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-202
Matrix: Water
Instrument: ICPMS2

Analyte	MDL	RL	Units
Cadmium-111	0.0300	0.100	ug/L
Cadmium-114	0.0400	0.100	ug/L
Zinc-66	2.92	6.00	ug/L
Zinc-67	0.940	6.00	ug/L

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAG10
Lot Number:	P2-AG688237
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Silver
Starting Material:	Ag Shot
Starting Material Lot#:	2217
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10004 ± 30 µg/mL

Density: 1.054 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9984 ± 32 µg/mL**
ICP Assay NIST SRM 3151 Lot Number: 160729

Assay Method #2 **10016 ± 26 µg/mL**
Volhard NIST SRM 999c Lot Number: 999c

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Ag	<		M	Eu	<	0.000253	O	Na		0.005563	M	Se	<	0.018179	M	Zn		0.005800
O	Al		0.006296	O	Fe		0.002932	M	Nb	<	0.000253	M	Si		0.022487	M	Zr	<	0.005559
M	As	<	0.002403	M	Ga	<	0.000253	M	Nd	<	0.000253	M	Sm	<	0.000253				
M	Au		0.001635	M	Gd	<	0.000253	O	Ni	<	0.005472	M	Sn		0.001928				
O	B	<	0.009978	M	Ge	<	0.000754	M	Os	<	0.000254	O	Sr		0.000086				
M	Ba	<	0.000785	M	Hf	<	0.000253	M	P	<	0.053784	M	Ta	<	0.000253				
M	Be	<	0.002407	M	Hg	<	0.001332	M	Pb		0.003281	M	Tb	<	0.000253				
M	Bi		0.001671	M	Ho	<	0.000253	M	Pd	<	0.001382	M	Te	<	0.003715				
O	Ca		0.007116	M	In	<	0.003483	M	Pr	<	0.000253	M	Th	<	0.000253				
M	Cd	<	0.000253	M	Ir	<	0.000254	M	Pt	<	0.000253	M	Ti	<	0.002706				
M	Ce	<	0.000573	O	K		0.004010	M	Rb	<	0.000253	M	Tl	<	0.000253				
M	Co	<	0.000253	M	La	<	0.000253	M	Re	<	0.000253	M	Tm	<	0.000253				
O	Cr	<	0.005043	O	Li	<	0.000214	M	Rh	<	0.000253	M	U	<	0.000253				
M	Cs	<	0.002769	M	Lu	<	0.000253	M	Ru	<	0.000254	M	V	<	0.000822				
O	Cu		0.004614	O	Mg		0.001035	M	S	<	0.560935	M	W	<	0.002146				
M	Dy	<	0.000253	M	Mn	<	0.000253	M	Sb	<	0.006899	M	Y	<	0.000253				
M	Er	<	0.000253	M	Mo	<	0.000479	M	Sc	<	0.000733	M	Yb	<	0.000253				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 107.87 +1 6 $Ag(H_2O)_6^+$

Chemical Compatibility -Stable in HNO_3, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [$AgCl_{x1-x}$] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite , bromide, chloride, iodide, carbonate , chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

Stability - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ag Containing Samples (Preparation and Solution) -Metal (Soluble in HNO_3); Oxides (Soluble in HNO_3); Ores (Digestion with conc. HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 107 amu	1 ppt	N/A	91Zr16O
ICP-OES 243.779 nm	0.12/0.01 µg/mL	1	Mn, Th, Ni, Rh
ICP-OES 328.068 nm	0.007/0.0007 µg/mL	1	Ce, Rh, V
ICP-OES 338.289 nm	0.013/0.001 µg/mL	1	Ce, Cr, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 29, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 29, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAL10
Lot Number:	S2-AL700843
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Aluminum
Starting Material:	Al(NO3)3 * 9H2O
Starting Material Lot#:	P2-2302
Starting Material Purity:	99.9913%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10011 ± 31 µg/mL

Density: 1.087 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10015 ± 44 µg/mL**
ICP Assay NIST SRM 3101a Lot Number: 140903

Assay Method #2 **10008 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10014 ± 36 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001500	M	Eu	<	0.000680	O	Na		0.510200	M	Se	<	0.014000	M	Zn		0.009183
s	Al	<		O	Fe		0.114284	M	Nb	<	0.000680	O	Si		0.053060	O	Zr		0.003673
M	As	<	0.006800	O	Ga		0.191835	M	Nd	<	0.000680	M	Sm	<	0.000680				
M	Au	<	0.000680	M	Gd	<	0.004100	O	Ni		0.001102	M	Sn	<	0.006800				
O	B	<	0.021000	M	Ge	<	0.001400	M	Os	<	0.008700	O	Sr		0.006530				
O	Ba		0.012652	M	Hf	<	0.002700	n	P	<		M	Ta	<	0.000680				
O	Be	<	0.001300	M	Hg	<	0.006100	M	Pb		0.006530	M	Tb	<	0.000680				
M	Bi	<	0.008100	M	Ho	<	0.000680	M	Pd	<	0.000680	M	Te	<	0.030000				
O	Ca		0.071428	M	In	<	0.000900	M	Pr	<	0.000680	M	Th	<	0.000680				
M	Cd	<	0.001400	M	Ir	<	0.000680	M	Pt	<	0.000680	O	Ti		0.001142				
M	Ce	<	0.002700	O	K		0.053060	M	Rb	<	0.014000	M	Tl	<	0.000680				
O	Co		0.001979	M	La	<	0.002900	M	Re	<	0.000680	M	Tm	<	0.000680				
O	Cr		0.014285	O	Li		0.000142	M	Rh	<	0.000680	M	U	<	0.001400				
M	Cs		0.005306	M	Lu	<	0.000680	M	Ru	<	0.000680	M	V	<	0.005400				
O	Cu		0.003469	O	Mg		0.069387	i	S	<		M	W	<	0.012000				
M	Dy	<	0.005400	O	Mn		0.001653	M	Sb	<	0.004200	M	Y	<	0.000680				
M	Er	<	0.000680	M	Mo	<	0.012000	M	Sc	<	0.002100	M	Yb	<	0.000680				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98 +3 6 Al(H2O)6+3

Chemical Compatibility -Soluble in HCl, HNO3, HF and H2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Al Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); a- Al2O3 (Na2CO3 fusion in Pt0);

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 27 amu	30 ppt	N/A	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+
ICP-OES 167.078 nm	0.1/0.009 µg/mL	1	Fe
ICP-OES 394.401 nm	0.05/0.006 µg/mL	1	U, Ce
ICP-OES 396.152 nm	0.03/0.006 µg/mL	1	Mo, Zr, Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 27, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 27, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
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Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAS10
Lot Number:	R2-AS691113
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Arsenic
Starting Material:	As Pieces
Starting Material Lot#:	2208
Starting Material Purity:	99.9980%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9981 ± 55 µg/mL

Density: 1.028 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9981 ± 55 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001578	M	Eu	<	0.000526	O	Na		0.036136	M	Se	<	0.014204	O	Zn	<	0.003390
O	Al		0.006694	M	Fe		0.002633	O	Nb	<	0.011526	O	Si		0.139479	M	Zr	<	0.003156
s	As	<		M	Ga	<	0.000526	M	Nd	<	0.000526	M	Sm	<	0.000526				
M	Au	<	0.000526	M	Gd	<	0.000526	O	Ni	<	0.005537	M	Sn	<	0.001052				
M	B		0.017011	M	Ge	<	0.000526	M	Os	<	0.000526	M	Sr	<	0.000526				
M	Ba	<	0.000526	M	Hf	<	0.000526	O	P	<	0.056500	M	Ta	<	0.000526				
O	Be	<	0.001130	M	Hg	<	0.002104	M	Pb	<	0.000526	M	Tb	<	0.000526				
M	Bi	<	0.002104	M	Ho	<	0.000526	M	Pd	<	0.000526	M	Te	<	0.003682				
O	Ca		0.005657	M	In	<	0.000526	M	Pr	<	0.002630	M	Th	<	0.000526				
M	Cd	<	0.000526	M	Ir	<	0.000526	M	Pt	<	0.000526	O	Ti	<	0.001017				
M	Ce	<	0.000526	O	K		0.003865	M	Rb	<	0.002104	M	Tl	<	0.000526				
M	Co	<	0.003156	M	La	<	0.000526	M	Re	<	0.000526	M	Tm	<	0.000526				
M	Cr		0.000877	M	Li	<	0.000526	M	Rh	<	0.000526	M	U	<	0.000526				
M	Cs	<	0.002104	M	Lu	<	0.000526	M	Ru	<	0.000526	M	V	<	0.001578				
M	Cu	<	0.003156	O	Mg		0.000235	O	S	<	0.056500	M	W	<	0.000526				
M	Dy	<	0.000526	M	Mn	<	0.001052	M	Sb	<	0.000526	M	Y	<	0.000526				
M	Er	<	0.000526	M	Mo	<	0.000526	M	Sc	<	0.002104	M	Yb	<	0.000526				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.92 ; mix of +3 and +5 ; 6 ; H_3AsO_4 and $HAsO_2$

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl, HNO_3,H_3PO_4, H_2SO_4 and HF aqueous matrices water and NH_4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container.

As Containing Samples (Preparation and Solution) - Metal (soluble in 1:1 H_2O / HNO_3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphic form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K_2CO_3 and KNO_3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na_2CO_3 / Na_2O_2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 75 amu	20 ppt	N/A	40Ar35Cl, 59Co16O, 36Ar38Ar1H,8Ar37Cl,Ar39K, 150Nd2+,150Sm2+
ICP-OES 189.042 nm	0.05/0.005 µg/mL	1	Cr
ICP-OES 193.696 nm	0.1/0.01 µg/mL	1	V, Ge
ICP-OES 228.812 nm	0.1/0.01 µg/mL	1	Cd, Pt, Ir, Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 25, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 25, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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fax: 540.585.3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBA10
Lot Number:	P2-BA682107
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Barium
Starting Material:	Ba(NO3)2
Starting Material Lot#:	Mixed Lots
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10072 ± 32 µg/mL

Density: 1.024 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10054 ± 80 µg/mL**
ICP Assay NIST SRM 3104a Lot Number: 140909

Assay Method #2 **10075 ± 30 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001538	O	Eu	<	0.028728	O	Na		0.006767	M	Se	<	0.007964	O	Zn		0.004335
M	Al		0.005194	M	Fe		0.016554	M	Nb	<	0.000200	O	Si	<	0.020780	M	Zr	<	0.000271
M	As	<	0.000519	M	Ga	<	0.000200	M	Nd	<	0.000200	M	Sm	<	0.082480				
M	Au	<	0.003452	M	Gd	<	0.000200	M	Ni	<	0.001290	M	Sn	<	0.000200				
M	B	<	0.002519	M	Ge	<	0.000430	M	Os	<	0.000752	O	Sr		0.027070				
s	Ba	<		M	Hf	<	0.002746	O	P	<	0.044677	M	Ta	<	0.001008				
M	Be	<	0.000430	M	Hg	<	0.001063	M	Pb	<	0.002257	M	Tb	<	0.000200				
M	Bi	<	0.002971	M	Ho	<	0.000200	M	Pd	<	0.000286	M	Te	<	0.001470				
O	Ca		0.026224	M	In	<	0.000200	M	Pr	<	0.000200	M	Th	<	0.000200				
M	Cd	<	0.000200	M	Ir	<	0.000446	M	Pt	<	0.000200	M	Ti	<	0.000324				
M	Ce	<	0.004362	O	K		0.011526	M	Rb		0.001487	M	Tl	<	0.000200				
M	Co	<	0.000200	O	La	<	0.091587	M	Re	<	0.000200	M	Tm	<	0.000954				
M	Cr	<	0.002191	O	Li	<	0.002181	M	Rh	<	0.000200	M	U	<	0.000200				
M	Cs	<	0.001640	M	Lu	<	0.002934	M	Ru	<	0.000200	M	V	<	0.000229				
M	Cu	<	0.003646	O	Mg		0.002379	O	S	<	0.073041	M	W	<	0.001627				
M	Dy	<	0.000200	M	Mn	<	0.000902	M	Sb	<	0.000514	O	Y	<	0.019637				
M	Er	<	0.000556	M	Mo	<	0.000455	M	Sc	<	0.000478	M	Yb	<	0.001991				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33 +2 6 $Ba(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.

Ba Containing Samples (Preparation and Solution) -Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 138 amu	1 ppt	N/A	122Sn16O, 122Te16O
ICP-OES 230.424 nm	0.004/0.0005 µg/mL	1	Mo, Ir, Co
ICP-OES 233.527 nm	0.004/0.0003 µg/mL	1	
ICP-OES 455.403 nm	0.002/0.0001 µg/mL	1	Zr, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 13, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 13, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBE10
Lot Number:	P2-BE678865
Matrix:	6% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Beryllium
Starting Material:	Beryllium diacetate
Starting Material Lot#:	2221
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10036 ± 35 µg/mL

Density: 1.140 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10051 ± 42 µg/mL**
ICP Assay NIST SRM 3105a Lot Number: 090514

Assay Method #2 **10008 ± 59 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.045414	M	Eu	<	0.000254	O	Na		0.015009	M	Se	<	0.015257	O	Zn		0.004059
O	Al		0.008058	O	Fe		0.011749	M	Nb	<	0.000254	O	Si		0.063793	O	Zr	<	0.007064
M	As	<	0.006473	M	Ga	<	0.000254	M	Nd	<	0.000254	M	Sm	<	0.000254				
M	Au	<	0.000248	M	Gd	<	0.000254	M	Ni	<	0.002034	M	Sn	<	0.002542				
O	B	<	0.021661	M	Ge	<	0.000508	M	Os	<	0.000248	M	Sr	<	0.000254				
M	Ba		0.001760	M	Hf	<	0.000254	O	P	<	0.666500	M	Ta	<	0.000254				
s	Be	<		M	Hg	<	0.001244	M	Pb	<	0.001271	M	Tb	<	0.000254				
M	Bi	<	0.000254	M	Ho	<	0.000254	M	Pd	<	0.000254	M	Te	<	0.001780				
O	Ca		0.015256	M	In	<	0.000254	M	Pr	<	0.000254	M	Th	<	0.000254				
M	Cd	<	0.000254	M	Ir	<	0.000248	M	Pt	<	0.000254	O	Ti	<	0.002266				
M	Ce	<	0.000254	O	K		0.031127	M	Rb	<	0.000508	M	Tl	<	0.000254				
M	Co	<	0.004068	M	La	<	0.000254	M	Re	<	0.000254	M	Tm	<	0.000254				
M	Cr	<	0.001525	O	Li	<	0.000666	M	Rh	<	0.000254	M	U	<	0.000254				
M	Cs		0.001642	M	Lu	<	0.000254	M	Ru	<	0.000248	M	V	<	0.000508				
M	Cu	<	0.005085	O	Mg		0.001907	i	S	<		M	W	<	0.004068				
M	Dy	<	0.000254	O	Mn	<	0.001333	M	Sb	<	0.000254	M	Y	<	0.000254				
M	Er	<	0.000254	M	Mo	<	0.000762	O	Sc	<	0.001333	M	Yb	<	0.000254				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 9.01 +2 4 Be(H2O)4+2

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO3 / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta l(is best dissolved in diluted H2SO4); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO4 fusion); Ores (H2SO4/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 9 amu	4 ppt	N/A	
ICP-OES 234.861 nm	0.0003/0.00016 µg/mL	1	Fe, Ta, Mo
ICP-OES 313.042 nm	0.0003/0.00009 µg/mL	1	V, Ce, U
ICP-OES 313.107 nm	0.0007/0.0005 µg/mL	1	Ce, Th, Tm

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

April 22, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 22, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCA10
Lot Number:	R2-CA697921
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Calcium
Starting Material:	Calcium Oxide
Starting Material Lot#:	P2-CA677788
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9985 ± 30 µg/mL

Density: 1.039 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9976 ± 43 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 130213

Assay Method #2 **9965 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10008 ± 26 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002500	M	Eu	<	0.001300	M	Na		0.008214	O	Se	<	0.022000	O	Zn		0.001158
O	Al	<	0.030000	O	Fe		0.002316	M	Nb	<	0.001300	O	Si	<	0.022000	M	Zr	<	0.006200
O	As	<	0.025000	M	Ga	<	0.002500	M	Nd	<	0.001300	M	Sm	<	0.001300				
M	Au	<	0.013000	M	Gd	<	0.001300	O	Ni	<	0.005300	O	Sn	<	0.013000				
O	B	<	0.006900	O	Ge	<	0.018000	M	Os	<	0.002500	M	Sr		0.115847				
M	Ba		0.000905	M	Hf	<	0.002500	O	P	<	0.027000	M	Ta	<	0.008600				
O	Be	<	0.000270	M	Hg	<	0.001300	M	Pb		0.001685	M	Tb	<	0.001300				
M	Bi	<	0.002500	M	Ho	<	0.001300	M	Pd	<	0.006200	O	Te	<	0.045000				
s	Ca	<		M	In	<	0.001300	M	Pr	<	0.001300	M	Th	<	0.001300				
O	Cd	<	0.000540	M	Ir	<	0.001300	M	Pt	<	0.001300	O	Ti	<	0.004200				
M	Ce	<	0.001300	O	K		0.015797	M	Rb	<	0.014000	M	Tl	<	0.001300				
O	Co		0.000558	M	La	<	0.001300	M	Re	<	0.001300	M	Tm	<	0.001300				
O	Cr	<	0.006000	O	Li	<	0.006900	M	Rh	<	0.002500	M	U	<	0.001300				
M	Cs	<	0.001300	M	Lu	<	0.001300	M	Ru	<	0.003800	O	V	<	0.002200				
M	Cu	<	0.002500	O	Mg		0.002843	n	S	<		M	W	<	0.012000				
M	Dy	<	0.001300	O	Mn		0.000115	M	Sb	<	0.007400	M	Y	<	0.001300				
M	Er	<	0.001300	M	Mo		0.002527	O	Sc	<	0.006100	M	Yb	<	0.001300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.08 +2 6 Ca(H2O)6+2

Chemical Compatibility - Soluble in HCl and HNO3. Avoid H2SO4, HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.

Ca Containing Samples (Preparation and Solution) -Metal (best dissolved in diluted HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO2). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO3. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na2CO3 followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 44 amu	1200 ppt	n/a	16O212C, 28Si16O, 88Sr
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	Ge

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 09, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 09, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCD10
Lot Number:	P2-CD685077
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cadmium
Starting Material:	Cd Shot
Starting Material Lot#:	1954
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9954 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9956 ± 54 µg/mL**
ICP Assay NIST SRM 3108 Lot Number: 130116

Assay Method #2 **9953 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	<	0.006348	M	Eu	<	0.010622	O	Na		0.004020	M	Se	<	0.008116	O	Zn	<	0.002152
O	Al		0.011566	M	Fe		0.003011	M	Nb	<	0.000405	O	Si		0.005480	M	Zr	<	0.000405
M	As	<	0.001623	M	Ga	<	0.000405	M	Nd	<	0.000405	M	Sm	<	0.000405				
M	Au	<	0.000405	M	Gd	<	0.000405	M	Ni	<	0.002840	M	Sn	<	0.001217				
M	B	<	0.004463	M	Ge	<	0.000405	M	Os	<	0.000405	M	Sr	<	0.000405				
O	Ba	<	0.000968	M	Hf	<	0.000405	O	P	<	0.045730	M	Ta	<	0.000405				
M	Be	<	0.000405	O	Hg	<	0.002152	M	Pb	<	0.002434	M	Tb	<	0.000405				
M	Bi	<	0.000405	M	Ho	<	0.000405	M	Pd	<	0.000405	M	Te	<	0.016636				
O	Ca		0.002946	O	In	<	0.021520	M	Pr	<	0.000405	M	Th	<	0.000405				
s	Cd	<		M	Ir	<	0.000405	M	Pt	<	0.000405	M	Ti	<	0.001217				
M	Ce	<	0.000405	O	K		0.008179	M	Rb	<	0.000405	M	Tl	<	0.004495				
M	Co	<	0.000405	M	La	<	0.000405	M	Re	<	0.000405	M	Tm	<	0.000405				
M	Cr		0.002907	M	Li	<	0.000405	M	Rh	<	0.000405	M	U	<	0.000405				
M	Cs	<	0.002374	M	Lu	<	0.000405	M	Ru	<	0.000405	M	V	<	0.003179				
M	Cu	<	0.002434	O	Mg		0.000137	O	S	<	0.037660	M	W	<	0.000405				
M	Dy	<	0.000405	M	Mn	<	0.001623	M	Sb	<	0.004057	M	Y	<	0.000405				
M	Er	<	0.000405	M	Mo	<	0.000811	M	Sc	<	0.001623	M	Yb	<	0.000811				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 112.41 +2 4 Cd2(OH) (aq)3+ and Cd(OH)(aq)

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 , and HF. Avoid basic media forming insoluble carbonate and hydroxide.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3 / LDPE container.

Cd Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (soluble in HCl or HNO3); Ores (dissolve in HCl /HNO3 then take to fumes with H2SO4. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 111 amu	11 ppt	n/a	95Mo16O
ICP-OES 214.438 nm	0.003 / 0.0003 µg/mL	1	Pt, Ir
ICP-OES 226.502 nm	0.003 / 0.0003 µg/mL	1	Ir
ICP-OES 228.802 nm	0.003 / 0.0003 µg/mL	1	Co, Ir, As, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 08, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 08, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCO10
Lot Number:	N2-CO671028
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cobalt
Starting Material:	COBALT
Starting Material Lot#:	1749
Starting Material Purity:	99.9978%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9988 ± 34 µg/mL

Density: 1.057 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9973 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10024 ± 50 µg/mL**
ICP Assay NIST SRM traceable to 3113 Lot Number: M2-CO661665

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.022956	M	Eu	<	0.000422	O	Na		0.008125	M	Se	<	0.009290	M	Zn		0.007197
O	Al		0.013621	O	Fe		0.048700	M	Nb	<	0.000422	O	Si		0.017539	M	Zr	<	0.014357
i	As	<		M	Ga	<	0.000844	M	Nd	<	0.017735	M	Sm	<	0.001689				
M	Au	<	0.000583	M	Gd		0.003247	O	Ni	<	0.043642	M	Sn	<	0.005067				
M	B	<	0.013512	M	Ge	<	0.004645	M	Os	<	0.000583	O	Sr		0.000841				
O	Ba		0.071210	M	Hf	<	0.000422	n	P	<		M	Ta	<	0.000422				
O	Be	<	0.001771	M	Hg	<	0.002334	M	Pb		0.010094	M	Tb	<	0.001689				
M	Bi		0.000614	M	Ho	<	0.000422	M	Pd	<	0.000422	M	Te	<	0.008445				
O	Ca		0.025034	M	In	<	0.003378	M	Pr	<	0.006756	M	Th	<	0.000422				
M	Cd	<	0.000844	M	Ir	<	0.000583	M	Pt	<	0.000422	M	Ti	<	0.002533				
M	Ce		0.002721	O	K		0.005785	M	Rb	<	0.001689	M	Tl	<	0.000422				
s	Co	<		M	La		0.000877	M	Re		0.016853	M	Tm	<	0.000422				
M	Cr	<	0.020269	O	Li		0.000262	M	Rh	<	0.000422	M	U	<	0.000422				
M	Cs		0.000877	M	Lu	<	0.000422	M	Ru	<	0.000583	M	V	<	0.001689				
M	Cu		0.007197	O	Mg		0.003444	n	S	<		M	W	<	0.000844				
M	Dy	<	0.000422	O	Mn	<	0.006072	M	Sb	<	0.005911	M	Y		0.001228				
M	Er	<	0.000422	M	Mo	<	0.005911	M	Sc	<	0.001689	M	Yb	<	0.003378				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.93 +2 6 Co(H2O)62+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO3).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 59 amu	2 ppt	n/a	42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl
ICP-OES 228.616 nm	0.01/0.001 µg/mL	1	
ICP-OES 237.862 nm	0.01/0.002 µg/mL	1	W, Re, Al, Ta
ICP-OES 238.892 nm	0.01/0.002 µg/mL	1	Fe, W, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 15, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 15, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Supervisor, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCR(3)10
Lot Number:	R2-CR691013
Matrix:	10% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Chromium
Starting Material:	Cr METAL
Starting Material Lot#:	2077
Starting Material Purity:	99.9942%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10044 ± 40 µg/mL

Density: 1.082 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10057 ± 58 µg/mL**
ICP Assay NIST SRM 3112a Lot Number: 170630

Assay Method #2 **10035 ± 50 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000540	M	Eu	<	0.003200	O	Na		0.130091	M	Se	<	0.012000	O	Zn	<	0.002700
O	Al		0.016634	O	Fe		0.202602	M	Nb	<	0.022000	n	Si	<		M	Zr	<	0.020000
M	As		0.003838	O	Ga	<	0.031000	M	Nd	<	0.000540	M	Sm	<	0.035000				
M	Au	<	0.000540	M	Gd	<	0.000540	O	Ni		0.009170	M	Sn		0.004051				
M	B	<	0.049000	M	Ge	<	0.005400	M	Os	<	0.088000	O	Sr	<	0.000250				
O	Ba	<	0.002000	M	Hf	<	0.000540	i	P	<		M	Ta	<	0.000540				
O	Be	<	0.000250	M	Hg	<	0.001600	M	Pb		0.002559	M	Tb	<	0.000540				
M	Bi		0.008956	M	Ho	<	0.000540	M	Pd	<	0.001100	M	Te	<	0.004800				
O	Ca		0.074642	M	In	<	0.001100	M	Pr	<	0.000540	M	Th	<	0.000540				
M	Cd	<	0.000540	M	Ir	<	0.000540	M	Pt	<	0.000540	O	Ti		0.013435				
M	Ce	<	0.000540	O	K		0.034122	i	Rb	<		M	Tl	<	0.001100				
O	Co	<	0.002900	M	La	<	0.001100	M	Re	<	0.002700	O	Tm	<	0.001800				
s	Cr	<		O	Li	<	0.000130	M	Rh	<	0.032000	M	U	<	0.001100				
M	Cs	<	0.019000	M	Lu	<	0.000540	M	Ru	<	0.094000	O	V		0.159949				
O	Cu		0.010023	O	Mg		0.001450	i	S	<		M	W	<	0.028000				
M	Dy	<	0.000540	O	Mn	<	0.014000	M	Sb	<	0.008600	M	Y	<	0.001100				
M	Er	<	0.016000	O	Mo	<	0.013000	O	Sc	<	0.001400	M	Yb	<	0.000540				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 52.00 +3 6 $Cr(H_2O)_6^{3+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr3 Containing Samples (Preparation and Solution) -Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1. B. Fusion with $NaKSO_4$ and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, B, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 52 amu	40 ppt	N/A	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.
ICP-OES 205.552 nm	0.006/0.0008 µg/mL	1	Os
ICP-OES 276.654 nm	0.01/0.001 µg/mL	1	Cu, Ta, V
ICP-OES 284.325 nm	0.008/0.0007 µg/mL	1	

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 25, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 25, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCU10
Lot Number:	R2-CU693370
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Copper
Starting Material:	Cu Metal
Starting Material Lot#:	2095
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10016 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10010 ± 55 µg/mL**
ICP Assay NIST SRM 3114 Lot Number: 121207

Assay Method #2 **10017 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10015 ± 25 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.007542	M	Eu	<	0.000942	O	Na		0.001434	M	Se	<	0.016971	M	Zn	<	0.005657
O	Al	<	0.000609	O	Fe		0.008698	M	Nb	<	0.000942	O	Si		0.003052	M	Zr	<	0.000942
M	As	<	0.010371	M	Ga	<	0.000942	M	Nd	<	0.000942	M	Sm	<	0.000942				
M	Au	<	0.001885	M	Gd	<	0.000942	M	Ni		0.003780	M	Sn	<	0.005657				
O	B		0.003662	M	Ge	<	0.005657	M	Os	<	0.000942	M	Sr	<	0.000942				
M	Ba		0.004252	M	Hf	<	0.000942	O	P	<	0.031668	M	Ta	<	0.000942				
M	Be	<	0.000942	O	Hg	<	0.007064	M	Pb		0.005788	M	Tb	<	0.000942				
M	Bi	<	0.000942	M	Ho	<	0.000942	M	Pd	<	0.000942	M	Te	<	0.004714				
O	Ca		0.002304	M	In	<	0.000942	M	Pr	<	0.000942	M	Th	<	0.000942				
M	Cd	<	0.000942	M	Ir	<	0.000942	M	Pt	<	0.000942	O	Ti	<	0.002801				
M	Ce	<	0.000942	O	K		0.000762	M	Rb	<	0.000942	M	Tl	<	0.000942				
M	Co		0.001890	M	La	<	0.000942	M	Re	<	0.000942	M	Tm	<	0.000942				
M	Cr	<	0.005657	O	Li	<	0.000243	i	Rh	<		M	U	<	0.000942				
M	Cs	<	0.000942	M	Lu	<	0.000942	M	Ru	<	0.039588	M	V	<	0.003771				
s	Cu	<		O	Mg		0.000320	O	S		0.007172	M	W	<	0.005657				
M	Dy	<	0.000942	O	Mn		0.000793	M	Sb	<	0.001885	M	Y	<	0.000942				
M	Er	<	0.000942	M	Mo	<	0.005657	M	Sc	<	0.000942	M	Yb	<	0.000942				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.55 +2 6 Cu(H2O)62+

Chemical Compatibility -Stable in HCl, HNO3, H2SO4, HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Cu Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 63 amu	10 ppt	n/a	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	Th, Ta, Nb, U, Hf
ICP-OES 224.700 nm	0.01/.001 µg/mL	1	Pb, Ir, Ni, W
ICP-OES 324.754 nm	0.06/.001 µg/mL		Nb, U, Th, Mo, Hf

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 05, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 05, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

Certificate of Analysis

Refine your results. Redefine your industry.

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Christiansburg, VA 24073 USA
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	ARI-1
Lot Number:	S2-MEB704284
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Iron

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Iron, Fe	**10 000.0 ± 40.0 µg/mL**		

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 20, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGK10
Lot Number:	S2-K700978
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Potassium
Starting Material:	KNO3
Starting Material Lot#:	2313
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10016 ± 30 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10018 ± 54 µg/mL**
ICP Assay NIST SRM 3141a Lot Number: 140813

Assay Method #2 **10016 ± 24 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #3 **10014 ± 45 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001400	M	Eu	<	0.000660	O	Na		0.240000	M	Se	<	0.007900	O	Zn		0.017000
O	Al		0.001600	O	Fe		0.005800	M	Nb	<	0.000660	O	Si		0.012000	O	Zr	<	0.001600
M	As	<	0.005300	M	Ga	<	0.000660	M	Nd	<	0.000660	M	Sm	<	0.000660				
M	Au	<	0.002000	M	Gd	<	0.000660	O	Ni	<	0.004900	M	Sn	<	0.000660				
O	B	<	0.005600	M	Ge	<	0.002000	M	Os	<	0.003300	O	Sr		0.000055				
O	Ba	<	0.000860	M	Hf	<	0.000660	O	P	<	0.032000	M	Ta	<	0.000660				
O	Be	<	0.000082	M	Hg	<	0.002000	M	Pb	<	0.002300	M	Tb	<	0.000660				
M	Bi	<	0.006600	M	Ho	<	0.000660	M	Pd	<	0.000660	M	Te	<	0.017000				
O	Ca		0.031000	M	In	<	0.000660	M	Pr	<	0.000660	M	Th	<	0.000660				
O	Cd	<	0.000450	M	Ir	<	0.000660	M	Pt	<	0.002700	M	Ti	<	0.000660				
M	Ce	<	0.000660	s	K	<		M	Rb		0.480000	M	Tl	<	0.000660				
O	Co	<	0.000780	M	La	<	0.000660	M	Re	<	0.000660	M	Tm	<	0.000660				
O	Cr		0.000530	O	Li	<	0.000084	M	Rh	<	0.000660	M	U	<	0.000660				
M	Cs	<	0.000660	M	Lu	<	0.000660	M	Ru	<	0.000660	O	V	<	0.001100				
M	Cu	<	0.002700	O	Mg		0.006300	O	S		0.028000	M	W	<	0.000660				
M	Dy	<	0.000660	O	Mn		0.000480	M	Sb	<	0.000660	M	Y	<	0.000660				
M	Er	<	0.000660	M	Mo	<	0.000660	O	Sc	<	0.000340	O	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.10 +1 (6) K+(aq)

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 39 amu	10 ppt	n/a	38ArH, 23Na16O, 78Se
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	U, Ce
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 06, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 06, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMG10
Lot Number:	R2-MG695748
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Magnesium
Starting Material:	Magnesium Metal
Starting Material Lot#:	2168
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10044 ± 30 µg/mL

Density: 1.053 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10055 ± 26 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**10042 ± 57 µg/mL** ICP Assay NIST SRM 3131a Lot Number: 140110
Assay Method #3	**10033 ± 26 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.002104	M	Eu	<	0.000910	O	Na		0.071011	O	Se	<	0.048000	O	Zn		0.003296
M	Al		0.003550	M	Fe		0.002536	M	Nb	<	0.000460	O	Si	<	0.032000	O	Zr	<	0.002700
M	As	<	0.001400	M	Ga	<	0.000460	M	Nd	<	0.000910	M	Sm	<	0.000460				
M	Au	<	0.001400	M	Gd	<	0.000460	O	Ni	<	0.001600	M	Sn	<	0.002300				
O	B		0.006847	M	Ge	<	0.001400	M	Os	<	0.000460	O	Sr		0.000278				
O	Ba		0.000963	M	Hf	<	0.000460	O	P		0.015216	M	Ta	<	0.000460				
O	Be	<	0.000120	M	Hg	<	0.000460	M	Pb	<	0.000460	M	Tb	<	0.000460				
M	Bi	<	0.000460	M	Ho	<	0.000460	M	Pd	<	0.003200	M	Te	<	0.007300				
O	Ca		0.053258	M	In	<	0.000460	M	Pr	<	0.000460	M	Th	<	0.000460				
O	Cd	<	0.000360	M	Ir	<	0.000460	M	Pt	<	0.001900	O	Ti	<	0.001700				
M	Ce	<	0.002300	M	K		0.048186	M	Rb		0.002409	M	Tl		0.003043				
M	Co	<	0.000910	M	La	<	0.002800	M	Re	<	0.000460	M	Tm	<	0.000460				
M	Cr	<	0.002300	O	Li		0.027897	M	Rh	<	0.000460	M	U	<	0.000460				
M	Cs		0.001039	M	Lu	<	0.000460	M	Ru	<	0.000460	M	V	<	0.000460				
O	Cu	<	0.003000	s	Mg	<		O	S	<	0.190000	M	W	<	0.000460				
M	Dy	<	0.000460	O	Mn		0.015216	M	Sb		0.020796	O	Y	<	0.000720				
M	Er	<	0.000460	M	Mo	<	0.000910	O	Sc	<	0.000480	M	Yb	<	0.000460				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.31 +2 6 Mg(H2O)6+2

Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4 avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.

Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 24 amu	42 ppt	n/a	7Li17O, 48Ti+2 , 48Ca+2
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	U, Hf, Cr, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 01, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 01, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMN10
Lot Number:	P2-MN687536
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Manganese
Starting Material:	Mn Metal
Starting Material Lot#:	2275
Starting Material Purity:	99.9909%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10046 ± 30 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10045 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10083 ± 68 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #3 **10031 ± 47 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001500	M	Eu	<	0.000730	O	Na		0.176713	M	Se	<	0.006600	M	Zn		0.009960
O	Al		0.004337	M	Fe	<	0.650000	M	Nb	<	0.000730	O	Si		0.097995	M	Zr	<	0.000730
M	As	<	0.008000	M	Ga		0.004337	M	Nd	<	0.001500	M	Sm	<	0.000730				
M	Au	<	0.000730	M	Gd	<	0.000730	M	Ni		0.024097	M	Sn	<	0.002200				
M	B		0.069078	M	Ge	<	0.004400	M	Os	<	0.000730	O	Sr		0.000931				
M	Ba	<	0.001500	M	Hf	<	0.000730	i	P	<		M	Ta	<	0.000730				
M	Be	<	0.000730	M	Hg	<	0.002200	M	Pb		0.007389	M	Tb	<	0.000730				
M	Bi	<	0.003000	M	Ho	<	0.000730	M	Pd	<	0.000730	M	Te	<	0.019000				
O	Ca		0.062652	M	In	<	0.003000	M	Pr	<	0.000730	M	Th	<	0.000730				
M	Cd	<	0.001500	M	Ir	<	0.000730	M	Pt	<	0.000730	O	Ti	<	0.006500				
M	Ce	<	0.007300	O	K		0.006425	M	Rb	<	0.006600	M	Tl	<	0.000730				
O	Co		0.014779	M	La	<	0.003000	M	Re	<	0.000730	M	Tm	<	0.000730				
O	Cr		0.273102	O	Li		0.000417	M	Rh	<	0.003000	M	U	<	0.001500				
M	Cs	<	0.000730	M	Lu	<	0.000730	M	Ru	<	0.004400	M	V	<	0.000730				
O	Cu		0.007711	O	Mg		0.321297	i	S	<		M	W	<	0.004400				
M	Dy	<	0.001500	s	Mn	<		M	Sb	<	0.021000	O	Y		0.001365				
M	Er	<	0.001500	M	Mo		0.010281	O	Sc	<	0.004100	M	Yb	<	0.000730				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.94 +2 6 Mn(H2O)62+

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3/LDPE container.

Mn Containing Samples (Preparation and Solution) -Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H2SO4 and heat to SO3 fumes - dense white fumes).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 55 amu	10 ppt	n/a	40Ar14N1H,39K16 O,37Cl18O,40Ar15 N,38Ar17O,36Ar18O 1H ,38Ar16O1H,37Cl17 O1H,23Na32S
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 05, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 05, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO10
Lot Number:	R2-MO693167
Matrix:	tr. NH4OH H2O
Value / Analyte(s):	10 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2257
Starting Material Purity:	99.9914%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 35 µg/mL

Density: 1.011 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10035 ± 67 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

Assay Method #2 **10005 ± 40 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001826	M	Eu	<	0.000300	M	Na		0.008750	M	Se	<	0.007480	M	Zn		0.002553
M	Al		0.004455	M	Fe		0.002093	M	Nb	<	0.015030	i	Si	<		M	Zr	<	0.005393
M	As	<	0.003006	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.006012	M	Gd	<	0.000300	M	Ni	<	0.004828	M	Sn		0.001004				
M	B	<	0.035184	M	Ge	<	0.000903	M	Os	<	0.003006	M	Sr		0.001903				
O	Ba		0.015613	M	Hf	<	0.000896	i	P	<		M	Ta	<	0.000300				
M	Be	<	0.003006	M	Hg	<	0.003006	M	Pb	<	0.000409	M	Tb	<	0.000300				
M	Bi	<	0.000401	M	Ho	<	0.000300	M	Pd	<	0.001114	M	Te	<	0.060122				
O	Ca		0.032589	M	In	<	0.015030	M	Pr	<	0.090184	M	Th	<	0.000786				
O	Cd	<	0.051800	M	Ir	<	0.007483	M	Pt	<	0.000388	O	Ti	<	0.093240				
M	Ce	<	0.015030	M	K		1.114508	M	Rb		0.040641	M	Tl		0.013140				
M	Co		0.004032	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.005931	O	Li		0.000215	M	Rh	<	0.000300	M	U		0.000937				
M	Cs		0.002812	M	Lu	<	0.000300	M	Ru	<	0.003006	M	V	<	0.000759				
M	Cu		0.005172	M	Mg		0.005212	i	S	<		M	W		0.592427				
M	Dy	<	0.000300	M	Mn		0.000952	M	Sb		0.003147	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.009019	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4] -2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5] -2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4] -2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br16O,190Os2+,190Pt2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 28, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 28, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Michael L Booth

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

Paul R Gaines

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNA10
Lot Number:	S2-NA700842
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Sodium
Starting Material:	Na2CO3
Starting Material Lot#:	2274
Starting Material Purity:	99.9958%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10053 ± 30 µg/mL

Density: 1.036 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10070 ± 26 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **10012 ± 31 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 120715

Assay Method #3 **10059 ± 20 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	<	0.000250	M	Eu	<	0.000840	s	Na	<		O	Se	<	0.004700	O	Zn		0.000226
O	Al		0.003688	O	Fe		0.001560	O	Nb	<	0.001300	O	Si		0.049648	O	Zr		0.000680
O	As	<	0.006900	M	Ga	<	0.000840	M	Nd	<	0.000840	M	Sm	<	0.000840				
M	Au	<	0.000840	M	Gd	<	0.000840	O	Ni	<	0.000250	M	Sn	<	0.001700				
O	B		0.000936	M	Ge	<	0.003400	M	Os	<	0.000840	O	Sr		0.000255				
O	Ba		0.002269	M	Hf	<	0.000840	O	P		0.006525	M	Ta	<	0.004200				
O	Be	<	0.000130	M	Hg	<	0.001700	M	Pb	<	0.000840	M	Tb	<	0.000840				
O	Bi	<	0.008100	M	Ho	<	0.000840	M	Pd	<	0.000840	O	Te	<	0.004800				
O	Ca		0.085112	M	In	<	0.000840	M	Pr	<	0.000840	M	Th	<	0.002500				
O	Cd	<	0.000250	M	Ir	<	0.000840	M	Pt	<	0.000840	O	Ti		0.000553				
M	Ce	<	0.001700	O	K		1.049718	M	Rb	<	0.003400	M	Tl	<	0.000840				
O	Co	<	0.000370	M	La	<	0.000840	M	Re	<	0.000840	M	Tm	<	0.000840				
O	Cr	<	0.001400	O	Li		0.000069	M	Rh	<	0.000840	M	U	<	0.000840				
M	Cs	<	0.003400	M	Lu	<	0.000840	M	Ru	<	0.001700	O	V	<	0.001600				
O	Cu	<	0.001400	O	Mg		0.028370	O	S		0.048230	O	W	<	0.005000				
M	Dy	<	0.000840	O	Mn		0.000139	M	Sb	<	0.001700	O	Y	<	0.000730				
M	Er	<	0.000840	O	Mo	<	0.004800	O	Sc	<	0.000370	O	Yb	<	0.000130				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 23 amu	310 ppt	n/a	46Ti+2 , 46Ca+2
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	Pd, Zn
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 25, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 25, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNI10
Lot Number:	P2-NI686384
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Nickel
Starting Material:	Ni Metal
Starting Material Lot#:	2277 and 2282
Starting Material Purity:	99.9992%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9979 ± 30 µg/mL

Density: 1.038 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9971 ± 54 µg/mL**
ICP Assay NIST SRM 3136 Lot Number: 120619

Assay Method #2 **9970 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **9993 ± 33 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.002606	M	Eu	<	0.001100	O	Na		0.004965	O	Se	<	0.067000	M	Zn		0.006578
M	Al	<	0.013000	O	Fe		0.018618	M	Nb	<	0.001100	O	Si		0.010923	M	Zr	<	0.001100
O	As	<	0.067000	M	Ga	<	0.001100	M	Nd	<	0.001100	M	Sm	<	0.001100				
M	Au	<	0.002100	M	Gd	<	0.001100	s	Ni	<		M	Sn	<	0.016000				
M	B	<	0.017000	M	Ge	<	0.004200	M	Os		0.002110	O	Sr	<	0.000940				
M	Ba	<	0.001100	M	Hf	<	0.001100	i	P	<		M	Ta	<	0.001100				
O	Be	<	0.000410	M	Hg		0.014895	M	Pb		0.006578	M	Tb	<	0.001100				
M	Bi	<	0.004200	M	Ho	<	0.001100	M	Pd	<	0.001100	M	Te	<	0.015000				
O	Ca		0.003351	M	In	<	0.001100	M	Pr	<	0.001100	M	Th	<	0.001100				
M	Cd		0.001365	M	Ir		0.004716	M	Pt	<	0.001100	M	Ti	<	0.004200				
M	Ce	<	0.001100	O	K		0.004716	M	Rb	<	0.001100	M	Tl	<	0.001100				
O	Co		0.017377	M	La	<	0.001100	M	Re		0.001737	M	Tm	<	0.001100				
O	Cr	<	0.006700	O	Li	<	0.000140	M	Rh	<	0.006300	M	U	<	0.001100				
M	Cs	<	0.007300	M	Lu	<	0.001100	M	Ru	<	0.019000	M	V	<	0.002100				
M	Cu		0.004096	O	Mg		0.000372	i	S	<		M	W	<	0.006300				
M	Dy	<	0.001100	O	Mn	<	0.001900	M	Sb		0.005833	O	Y	<	0.000540				
M	Er	<	0.001100	M	Mo	<	0.008400	M	Sc	<	0.002100	M	Yb	<	0.001100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69 +2 6 Ni(H2O)62+

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Ni Containing Samples (Preparation and Solution) -Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 60 amu	100 ppt	n/a	43Ca16O1H , 44Ca16O, 23Na37Cl
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	Si
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	Sb, Ta, Co
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	Cr, Re, Os, Nb, Ag, Pt, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGPB10
Lot Number:	P2-PB686383
Matrix:	0.5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Lead
Starting Material:	Lead Nitrate
Starting Material Lot#:	2299
Starting Material Purity:	99.9974%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10031 ± 30 µg/mL

Density: 1.015 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10060 ± 63 µg/mL**
ICP Assay NIST SRM 3128 Lot Number: 101026

Assay Method #2 **10048 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10007 ± 32 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.000850	M	Eu	<	0.000310	O	Na		0.005780	M	Se	<	0.004600	M	Zn		0.005440
O	Al		0.234602	O	Fe		0.023460	M	Nb	<	0.000310	O	Si		0.047600	M	Zr	<	0.000610
M	As	<	0.001900	M	Ga	<	0.000310	M	Nd	<	0.000310	M	Sm	<	0.000310				
M	Au	<	0.002200	M	Gd	<	0.004300	M	Ni	<	0.001600	M	Sn	<	0.000610				
O	B	<	0.005200	M	Ge	<	0.000610	M	Os	<	0.000310	O	Sr		0.000442				
O	Ba		0.001530	M	Hf	<	0.000310	O	P	<	0.052000	M	Ta	<	0.000310				
O	Be	<	0.000630	M	Hg	<	0.001600	s	Pb	<		M	Tb	<	0.000310				
O	Bi		0.021080	M	Ho	<	0.000610	M	Pd	<	0.000310	M	Te	<	0.004300				
O	Ca		0.037400	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.000310				
M	Cd	<	0.000610	M	Ir	<	0.000310	M	Pt	<	0.000310	M	Ti		0.002992				
M	Ce	<	0.000910	O	K		0.008840	M	Rb	<	0.000610	M	Tl		0.037400				
M	Co	<	0.000610	M	La	<	0.000610	M	Re	<	0.000310	M	Tm	<	0.000610				
M	Cr	<	0.003400	O	Li		0.000108	O	Rh	<	0.006300	M	U	<	0.000310				
M	Cs		0.002686	M	Lu	<	0.000310	M	Ru	<	0.000310	M	V	<	0.000310				
M	Cu	<	0.002500	O	Mg		0.004760	O	S	<	0.052000	M	W	<	0.002200				
M	Dy	<	0.000310	M	Mn	<	0.000310	M	Sb	<	0.001300	M	Y	<	0.000310				
M	Er	<	0.000310	O	Mo	<	0.005400	M	Sc	<	0.000310	M	Yb	<	0.000310				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.20 +2 6 $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) -Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 208 amu	5 ppt	n/a	192Pt16O, 192Os16O
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	Co
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	W, Ir, Hf, Sb, Th
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	Bi, Nb

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSB10
Lot Number:	R2-SB688559
Matrix:	3% (v/v) HNO3 3% (w/v) tartaric acid
Value / Analyte(s):	10 000 µg/mL ea: Antimony
Starting Material:	Antimony Metal
Starting Material Lot#:	1857
Starting Material Purity:	99.9894%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10003 ± 47 µg/mL

Density: 1.061 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10003 ± 41 µg/mL**
ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
w_i = the weighting factors for each method calculated using the inverse square of the variance:
$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2
$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2
$u_{char\ a}$ = the errors from characterization
u_{bb} = bottle to bottle homogeneity standard uncertainty
u_{lts} = long term stability standard uncertainty (storage)
u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000300	O	Na		0.140000	M	Se	<	0.007300	O	Zn		0.005000
M	Al		0.003200	O	Fe		0.060000	M	Nb	<	0.000100	O	Si		0.150000	O	Zr	<	0.006300
M	As	<	0.004400	M	Ga	<	0.000400	M	Nd	<	0.000100	M	Sm	<	0.000100				
M	Au	<	0.000210	M	Gd	<	0.000100	O	Ni		0.004800	M	Sn	<	0.001800				
M	B	<	0.011000	M	Ge	<	0.000600	M	Os	<	0.000110	O	Sr		0.000750				
O	Ba	<	0.004900	M	Hf	<	0.000100	O	P		0.540000	M	Ta		0.003300				
M	Be	<	0.000400	M	Hg	<	0.000110	M	Pb	<	0.000400	M	Tb	<	0.000100				
M	Bi	<	0.000200	M	Ho	<	0.000100	M	Pd	<	0.000210	M	Te	<	0.000600				
O	Ca		0.110000	M	In	<	0.000100	M	Pr	<	0.001600	M	Th	<	0.000100				
M	Cd	<	0.000200	M	Ir	<	0.000110	M	Pt	<	0.000600	M	Ti	<	0.002800				
M	Ce		0.006500	O	K		0.020000	M	Rb	<	0.001000	M	Tl	<	0.000100				
M	Co	<	0.000200	O	La	<	0.016000	M	Re	<	0.000100	M	Tm	<	0.000100				
M	Cr		0.006900	O	Li	<	0.000430	M	Rh	<	0.000300	M	U	<	0.000100				
M	Cs	<	0.000200	M	Lu	<	0.000100	M	Ru	<	0.000310	M	V	<	0.000800				
M	Cu	<	0.000600	O	Mg		0.021000	n	S	<		M	W	<	0.000200				
M	Dy	<	0.000100	O	Mn		0.001900	s	Sb	<		M	Y	<	0.000100				
M	Er	<	0.000100	M	Mo	<	0.000500	O	Sc	<	0.002300	M	Yb	<	0.000100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 121.75 +3 6 Sb(O)C4H4O6-1

Chemical Compatibility -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

Sb Containing Samples (Preparation and Solution) -Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides (Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 121 amu	5 ppt	N/A	105Pd16O, 89Y16O2
ICP-OES 206.833 nm	0.03/0.003 µg/mL	1	Ta, Cr, Ge, Hf
ICP-OES 217.581 nm	0.05/0.005 µg/mL	1	Nb, W, Re, Fe
ICP-OES 231.147 nm	0.06/0.006 µg/mL	1	Ni, Co, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com
tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

CERTIFICATE OF ANALYSIS

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSE10
Lot Number:	P2-SE684206
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Selenium
Starting Material:	Se Metal
Starting Material Lot#:	1962
Starting Material Purity:	99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 61 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9993 ± 67 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

Assay Method #2 **9992 ± 73 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002242	M	Eu	<	0.000373	O	Na		0.013700	s	Se	<		O	Zn		0.002382
M	Al		0.004465	M	Fe		0.008506	O	Nb	<	0.002975	O	Si		0.006270	M	Zr	<	0.001868
O	As	<	0.022040	M	Ga	<	0.000373	M	Nd	<	0.000373	M	Sm	<	0.000373				
M	Au	<	0.000373	M	Gd	<	0.000373	O	Ni		0.001849	M	Sn		0.000850				
O	B	<	0.007714	M	Ge	<	0.002616	M	Os	<	0.000373	M	Sr	<	0.001121				
M	Ba	<	0.001495	M	Hf	<	0.000373	O	P	<	0.022040	M	Ta	<	0.000373				
M	Be	<	0.001495	M	Hg	<	0.002240	M	Pb		0.006379	M	Tb	<	0.006353				
M	Bi	<	0.000373	M	Ho	<	0.000373	M	Pd	<	0.000373	M	Te	<	0.012707				
O	Ca		0.006552	M	In	<	0.000373	M	Pr	<	0.001495	M	Th	<	0.002990				
M	Cd		0.001169	M	Ir	<	0.000373	M	Pt	<	0.000373	M	Ti	<	0.003363				
M	Ce	<	0.000373	O	K		0.002006	M	Rb	<	0.001868	M	Tl		0.008613				
M	Co	<	0.000373	M	La	<	0.001121	M	Re	<	0.000373	M	Tm	<	0.000373				
M	Cr		0.002870	O	Li		0.000062	M	Rh	<	0.000373	M	U	<	0.000373				
M	Cs	<	0.001121	M	Lu	<	0.000373	M	Ru	<	0.001493	M	V	<	0.000747				
M	Cu	<	0.000747	O	Mg		0.001159	O	S		0.024674	M	W	<	0.002242				
M	Dy	<	0.000373	M	Mn	<	0.000373	M	Sb	<	0.002242	M	Y	<	0.000373				
M	Er	<	0.000373	O	Mo	<	0.003195	M	Sc	<	0.001121	M	Yb	<	0.000373				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 78.96 +4 6 H_2SeO_3

Chemical Compatibility -Soluble in HCl, HNO_3,H_3PO_4, H_2SO_4 and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Se Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (readily soluble in water); Minerals and alloys (acid digestion with HNO_3or HNO_3 / HF); Organic Matrices (acid digestion with hot concentrated H_2SO_4 accompanied by the careful dropwise addition of H_2O_2 until clear).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 82 amu	200 ppt	N/A	12C35Cl2
ICP-OES 196.026 nm	0.08/0.006 µg/mL	1	Fe
ICP-OES 203.985 nm	0.2/0.05 µg/mL	1	Sb, Ir, Cr, Ta
ICP-OES 206.279 nm	0.3/0.16 µg/mL	1	Cr, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 13, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 13, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTL10
Lot Number:	R2-TL691937
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Thallium
Starting Material:	TlNO3
Starting Material Lot#:	2118
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9987 ± 49 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9968 ± 68 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **10001 ± 58 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000200	O	Na		0.002479	M	Se	<	0.011019	O	Zn		0.002288
O	Al	<	0.004184	O	Fe	<	0.002824	M	Nb	<	0.000200	O	Si		0.003744	M	Zr	<	0.000200
M	As	<	0.002003	M	Ga	<	0.000200	M	Nd	<	0.000200	M	Sm	<	0.000200				
O	Au	<	0.002824	M	Gd	<	0.000200	M	Ni		0.001717	M	Sn	<	0.000601				
O	B	<	0.004184	M	Ge	<	0.000801	M	Os	<	0.000198	O	Sr	<	0.000313				
M	Ba	<	0.000400	M	Hf	<	0.000200	O	P	<	0.010460	M	Ta	<	0.000200				
O	Be	<	0.000104	M	Hg	<	0.000794	M	Pb		0.000807	M	Tb	<	0.000200				
M	Bi	<	0.005209	M	Ho	<	0.000200	M	Pd	<	0.000400	M	Te	<	0.005008				
O	Ca		0.002426	M	In	<	0.000200	M	Pr	<	0.000200	M	Th	<	0.000200				
M	Cd		0.001312	M	Ir	<	0.000198	M	Pt	<	0.000801	O	Ti	<	0.001255				
M	Ce	<	0.000200	O	K		0.006150	M	Rb	<	0.000200	s	Tl	<					
M	Co	<	0.000601	M	La	<	0.000200	M	Re	<	0.000200	M	Tm	<	0.000200				
M	Cr	<	0.000801	O	Li	<	0.000177	M	Rh	<	0.000200	M	U	<	0.000200				
M	Cs	<	0.003606	M	Lu	<	0.000200	M	Ru	<	0.000397	M	V	<	0.002203				
M	Cu	<	0.001001	O	Mg		0.000527	O	S	<	0.015690	M	W	<	0.000601				
M	Dy	<	0.000200	M	Mn	<	0.000801	M	Sb	<	0.000400	M	Y	<	0.000200				
M	Er	<	0.000200	M	Mo	<	0.001202	O	Sc	<	0.000711	M	Yb	<	0.000200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 204.38 +1 6 Tl(H2O)61+

Chemical Compatibility - Soluble in HCl, HNO3, and H2SO4. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Tl Containing Samples (Preparation and Solution) -Metal (Best dissolved in HNO3 which forms chiefly the Tl1+ ion.); Oxide (The thallous oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 205 amu	2 ppt	N/A	189Os16O
ICP-OES 190.864 nm	0.04 / 0.004 µg/mL	1	V, Ti
ICP-OES 276.787 nm	0.1 / 0.01 µg/mL	1	Ta, V, Fe, Cr
ICP-OES 351.924 nm	0.2 / 0.02 µg/mL	1	Th, Ce, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 08, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 08, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV10
Lot Number:	R2-V688296
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Vanadium
Starting Material:	Vanadium pentoxide
Starting Material Lot#:	1782
Starting Material Purity:	99.9907%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10026 ± 30 µg/mL

Density: 1.105 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10025 ± 56 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **10027 ± 30 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000510	M	Eu	<	0.000110	M	Na		0.095000	M	Se	<	0.002300	M	Zn		0.008900
O	Al		0.051000	O	Fe		0.350000	M	Nb	<	0.000710	O	Si		0.260000	M	Zr	<	0.002500
M	As	<	0.000410	M	Ga	<	0.007100	M	Nd	<	0.000210	M	Sm	<	0.000110				
M	Au	<	0.000410	M	Gd	<	0.000110	M	Ni		0.011000	M	Sn	<	0.003300				
M	B	<	0.006000	M	Ge	<	0.000110	M	Os	<	0.000410	M	Sr		0.001400				
M	Ba		0.001800	M	Hf	<	0.000110	O	P	<	0.120000	M	Ta	<	0.000110				
M	Be	<	0.000110	M	Hg	<	0.000310	M	Pb	<	0.002300	M	Tb	<	0.000110				
M	Bi	<	0.000610	M	Ho	<	0.000110	M	Pd	<	0.000610	M	Te	<	0.000610				
M	Ca		0.180000	M	In	<	0.000110	M	Pr	<	0.000110	M	Th	<	0.000210				
M	Cd	<	0.000410	M	Ir	<	0.000110	M	Pt	<	0.000410	M	Ti	<	0.021000				
M	Ce	<	0.000310	M	K		0.400000	M	Rb	<	0.000410	M	Tl	<	0.000110				
M	Co	<	0.001100	M	La	<	0.000110	M	Re	<	0.000110	M	Tm	<	0.000110				
O	Cr		0.190000	M	Li	<	0.001400	M	Rh	<	0.000110	M	U	<	0.000310				
M	Cs		0.005700	M	Lu	<	0.000110	M	Ru	<	0.000410	s	V	<					
M	Cu	<	0.001800	M	Mg		0.009200	n	S	<		M	W	<	0.003100				
M	Dy	<	0.000110	M	Mn		0.008700	M	Sb		0.076000	M	Y	<	0.000110				
M	Er	<	0.000110	M	Mo		0.086000	M	Sc	<	0.000310	M	Yb	<	0.000110				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 $H_2V_{10}O_{28}^{4-}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4, HF, H_3PO_4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na_2CO_3 / KNO_3); Oxides (V_2O_3 - use HCl, V_2O_4 - use HCl or HNO_3, V_2O_5 - use concentrated acids); Ores (Na_2CO_3 / KNO_3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V_2O_5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 01, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 01, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGZN10
Lot Number:	P2-ZN686137
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Zinc
Starting Material:	Zn Shot
Starting Material Lot#:	2201
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10040 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10009 ± 54 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 120629

Assay Method #2 **10049 ± 33 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10041 ± 28 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.003057	M	Eu	<	0.000509	O	Na		0.001874	M	Se	<	0.023441	s	Zn	<	
O	Al	<	0.005720	O	Fe		0.006348	M	Nb	<	0.000509	O	Si	<	0.057200	M	Zr	<	0.000509
M	As	<	0.003057	M	Ga	<	0.007134	M	Nd	<	0.000509	M	Sm	<	0.000509				
M	Au	<	0.000510	M	Gd	<	0.000509	M	Ni	<	0.000509	M	Sn	<	0.000509				
O	B	<	0.017160	M	Ge	<	0.003057	M	Os	<	0.000510	M	Sr	<	0.000509				
M	Ba	<	0.000509	M	Hf	<	0.000509	O	P	<	0.057200	M	Ta	<	0.000509				
M	Be	<	0.000509	M	Hg	<	0.001021	O	Pb		0.023870	M	Tb	<	0.000509				
M	Bi	<	0.005095	M	Ho	<	0.000509	M	Pd	<	0.002038	M	Te	<	0.023441				
O	Ca		0.033793	M	In	<	0.000509	M	Pr	<	0.000509	M	Th	<	0.000509				
O	Cd		0.003924	M	Ir	<	0.000510	M	Pt	<	0.000509	M	Ti	<	0.000509				
M	Ce	<	0.000509	O	K		0.001499	M	Rb	<	0.002038	M	Tl	<	0.009172				
M	Co	<	0.000509	M	La	<	0.000509	M	Re	<	0.000509	M	Tm	<	0.000509				
O	Cr		0.001549	O	Li	<	0.000457	M	Rh	<	0.000509	M	U	<	0.000509				
M	Cs	<	0.000509	M	Lu	<	0.000509	M	Ru	<	0.006129	M	V	<	0.000509				
O	Cu	<	0.010296	O	Mg		0.000349	O	S	<	0.034320	M	W	<	0.001019				
M	Dy	<	0.000509	M	Mn	<	0.000509	M	Sb	<	0.001019	M	Y	<	0.000509				
M	Er	<	0.000509	M	Mo	<	0.000509	M	Sc	<	0.000509	M	Yb	<	0.000509				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39 +2 4 Zn(OH)(aq)1+

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Zn Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 66 amu	7 ppt	N/A	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2
ICP-OES 202.548 nm	0.004/0.0002 µg/mL	1	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006/0.0006 µg/mL	1	Sb, Ta, Bi, Os
ICP-OES 213.856 nm	0.002/0.0004 µg/mL	1	Ni, Cu, V

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 05, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 05, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7470A
Total Metals

SIB-SW-AAM131-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-01 A	SDG:	22E0328
Sampled:	05/05/22 09:25	Prepared:	06/01/22 11:30	File ID:	TWM 06-02-22-029
% Solids:	0.00	Preparation:	TWM EPA 7470A	Analyzed:	06/02/22 14:57
Batch:	BKF0016	Sequence:	SKF0039	Initial/Final:	20 mL / 20 mL
Instrument:	HYDRA			Calibration:	FF00010

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.000022	1	0.000013	0.000100	J

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7470A

Total Metals

SIB-SW-AAQ005-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-02 A	SDG:	22E0328
Sampled:	05/05/22 08:45	Prepared:	06/01/22 11:30	File ID:	TWM 06-02-22-032
% Solids:	0.00	Preparation:	TWM EPA 7470A	Analyzed:	06/02/22 15:04
Batch:	BKF0016	Sequence:	SKF0039	Initial/Final:	20 mL / 20 mL
Instrument:	HYDRA			Calibration:	FF00010

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.000024	1	0.000013	0.000100	J

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7470A
Total Metals

SIB-SW-AAM169-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-03 A	SDG:	22E0328
Sampled:	05/05/22 14:38	Prepared:	06/01/22 11:30	File ID:	TWM 06-02-22-033
% Solids:	0.00	Preparation:	TWM EPA 7470A	Analyzed:	06/02/22 15:06
Batch:	BKF0016	Sequence:	SKF0039	Initial/Final:	20 mL / 20 mL
Instrument:	HYDRA			Calibration:	FF00010

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.000020	1	0.000013	0.000100	J

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7470A
Total Metals

SIB-SW-AAM107-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-04 C	SDG:	22E0328
Sampled:	05/05/22 15:18	Prepared:	06/01/22 11:30	File ID:	TWM 06-02-22-034
% Solids:	0.00	Preparation:	TWM EPA 7470A	Analyzed:	06/02/22 15:09
Batch:	BKF0016	Sequence:	SKF0039	Initial/Final:	20 mL / 20 mL
Instrument:	HYDRA			Calibration:	FF00010

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.000019	1	0.000013	0.000100	J

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7470A

Total Metals

SIB-SW-AAP957-CAR-ST-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-05 A	SDG:	22E0328
Sampled:	05/05/22 16:40	Prepared:	06/01/22 11:30	File ID:	TWM 06-02-22-037
% Solids:	0.00	Preparation:	TWM EPA 7470A	Analyzed:	06/02/22 15:16
Batch:	BKF0016	Sequence:	SKF0039	Initial/Final:	20 mL / 20 mL
Instrument:	HYDRA			Calibration:	FF00010

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.000024	1	0.000013	0.000100	J

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7470A
Total Metals

SIB-SW-WR198-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-06 A	SDG:	22E0328
Sampled:	05/05/22 08:40	Prepared:	06/01/22 11:30	File ID:	TWM 06-02-22-038
% Solids:	0.00	Preparation:	TWM EPA 7470A	Analyzed:	06/02/22 15:18
Batch:	BKF0016	Sequence:	SKF0039	Initial/Final:	20 mL / 20 mL
Instrument:	HYDRA			Calibration:	FF00010

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.000027	1	0.000013	0.000100	J

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7470A
Total Metals

SIB-SW-WR186-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-07 A	SDG:	22E0328
Sampled:	05/05/22 09:12	Prepared:	06/01/22 11:30	File ID:	TWM 06-02-22-039
% Solids:	0.00	Preparation:	TWM EPA 7470A	Analyzed:	06/02/22 15:20
Batch:	BKF0016	Sequence:	SKF0039	Initial/Final:	20 mL / 20 mL
Instrument:	HYDRA			Calibration:	FF00010

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.000026	1	0.000013	0.000100	J

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7470A
Total Metals

SIB-SW-WR15-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-08 A	SDG:	22E0328
Sampled:	05/05/22 09:25	Prepared:	06/01/22 11:30	File ID:	TWM 06-02-22-040
% Solids:	0.00	Preparation:	TWM EPA 7470A	Analyzed:	06/02/22 15:23
Batch:	BKF0016	Sequence:	SKF0039	Initial/Final:	20 mL / 20 mL
Instrument:	HYDRA			Calibration:	FF00010

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.000020	1	0.000013	0.000100	J

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7470A

Total Metals

SIB-SW-WR428-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-09 A	SDG:	22E0328
Sampled:	05/05/22 07:00	Prepared:	06/01/22 11:30	File ID:	TWM 06-02-22-041
% Solids:	0.00	Preparation:	TWM EPA 7470A	Analyzed:	06/02/22 15:25
Batch:	BKF0016	Sequence:	SKF0039	Initial/Final:	20 mL / 20 mL
Instrument:	HYDRA			Calibration:	FF00010

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.000020	1	0.000013	0.000100	J

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7470A
Total Metals

SIB-SW-WR71-050522

Laboratory:	Analytical Resources, LLC				
Client:	HydroGeoLogic, Inc.				
Project:	Portland Harbor Superfund Site 2021-2022				
Matrix:	Water	Laboratory ID:	22E0328-10 A	SDG:	22E0328
Sampled:	05/05/22 00:00	Prepared:	06/01/22 11:30	File ID:	TWM 06-02-22-042
% Solids:	0.00	Preparation:	TWM EPA 7470A	Analyzed:	06/02/22 15:27
Batch:	BKF0016	Sequence:	SKF0039	Initial/Final:	20 mL / 20 mL
Instrument:	HYDRA			Calibration:	FF00010

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.000025	1	0.000013	0.000100	J

Analytical Resources, LLC
Analytical Chemists and Consultants

PREPARATION BATCH SUMMARY

EPA 7470A

Laboratory: Analytical Resources, LLC SDG: 22E0328

Client: HydroGeoLogic, Inc. Project: Portland Harbor Superfund Site 2021-2022

Batch: BKF0016 Batch Matrix: Water Preparation: TWM EPA 7470A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SIB-SW-AAM131-CAR-ST-050522	22E0328-01	TWM 06-02-22-029	06/01/22 11:30	
SIB-SW-AAQ005-CAR-ST-050522	22E0328-02	TWM 06-02-22-032	06/01/22 11:30	
SIB-SW-AAM169-CAR-ST-050522	22E0328-03	TWM 06-02-22-033	06/01/22 11:30	
SIB-SW-AAM107-CAR-ST-050522	22E0328-04	TWM 06-02-22-034	06/01/22 11:30	
SIB-SW-AAP957-CAR-ST-050522	22E0328-05	TWM 06-02-22-037	06/01/22 11:30	
SIB-SW-WR198-050522	22E0328-06	TWM 06-02-22-038	06/01/22 11:30	
SIB-SW-WR186-050522	22E0328-07	TWM 06-02-22-039	06/01/22 11:30	
SIB-SW-WR15-050522	22E0328-08	TWM 06-02-22-040	06/01/22 11:30	
SIB-SW-WR428-050522	22E0328-09	TWM 06-02-22-041	06/01/22 11:30	
SIB-SW-WR71-050522	22E0328-10	TWM 06-02-22-042	06/01/22 11:30	
Blank	BKF0016-BLK1	TWM 06-02-22-027	06/01/22 11:30	
LCS	BKF0016-BS1	TWM 06-02-22-028	06/01/22 11:30	
SIB-SW-AAM131-CAR-ST-050522	BKF0016-DUP1	TWM 06-02-22-030	06/01/22 11:30	
SIB-SW-AAM131-CAR-ST-050522	BKF0016-MS1	TWM 06-02-22-031	06/01/22 11:30	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 7470A

Total Metals

Blank

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-
Batch: BKF0016
Laboratory ID: BKF0016-BLK1
Prepared: 06/01/22 11:30
Matrix: Water
Preparation: TWM EPA 7470A
Analyzed: 06/02/22 14:52
Sequence: SKF0039
Calibration: FF00010
Instrument: HYDRA

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.000017	1	0.000013	0.000100	J

Analytical Resources, LLC
Analytical Chemists and Consultants

LCS / LCS DUPLICATE RECOVERY

EPA 7470A

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Matrix:	Water	Analyzed:	06/02/22 14:55
Batch:	BKF0016	Laboratory ID:	BKF0016-BS1
Preparation:	TWM EPA 7470A	Sequence Name:	LCS
Initial/Final:	20 mL / 20 mL		

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	Q	LCS % REC. #	QC LIMITS REC.
Mercury	0.00200	0.00192		96.2	80 - 120

* Indicates values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SIB-SW-AAM131-CAR-ST-050522

DUPLICATES

EPA 7470A

Total Metals

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Matrix: Water
Laboratory ID: BKF0016-DUP1
Batch: BKF0016
Lab Source ID: 22E0328-01
Preparation: TWM EPA 7470A
Initial/Final: 20 mL / 20 mL
Source Sample Name: SIB-SW-AAM131-CAR-ST-050522
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Mercury	20	0.000022	0.000022	0.460	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

Analytical Resources, LLC
Analytical Chemists and Consultants

SIB-SW-AAM131-CAR-ST-050522

MS / MS DUPLICATE RECOVERY
EPA 7470A
Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Matrix:	Water	Analyzed:	06/02/22 15:02
Batch:	BKF0016	Laboratory ID:	BKF0016-MS1
Preparation:	TWM EPA 7470A	Sequence Name:	Matrix Spike
Initial/Final:	20 mL / 20 mL	Source Sample:	SIB-SW-AAM131-CAR-ST-050522

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	Q	MS CONCENTRATION (mg/L)	Q	MS % REC. #	QC LIMITS REC.
Mercury	0.00100	0.000022	J	0.000965		94.3	75 - 125

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 7470A

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Calibration:	FF00010	Instrument:	HYDRA
Calibration Date:	06/02/2022 17:01		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Mercury	0	0	0.0001	8010000	0.0005	8288000	0.001	7276000	0.002	6827000	0.005	7461600

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 7470A

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Calibration:	FF00010	Instrument:	HYDRA
Calibration Date:	06/02/2022 17:01		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Mercury	6310433	49.7	0.9984		0.99	

TWM 06-02-22

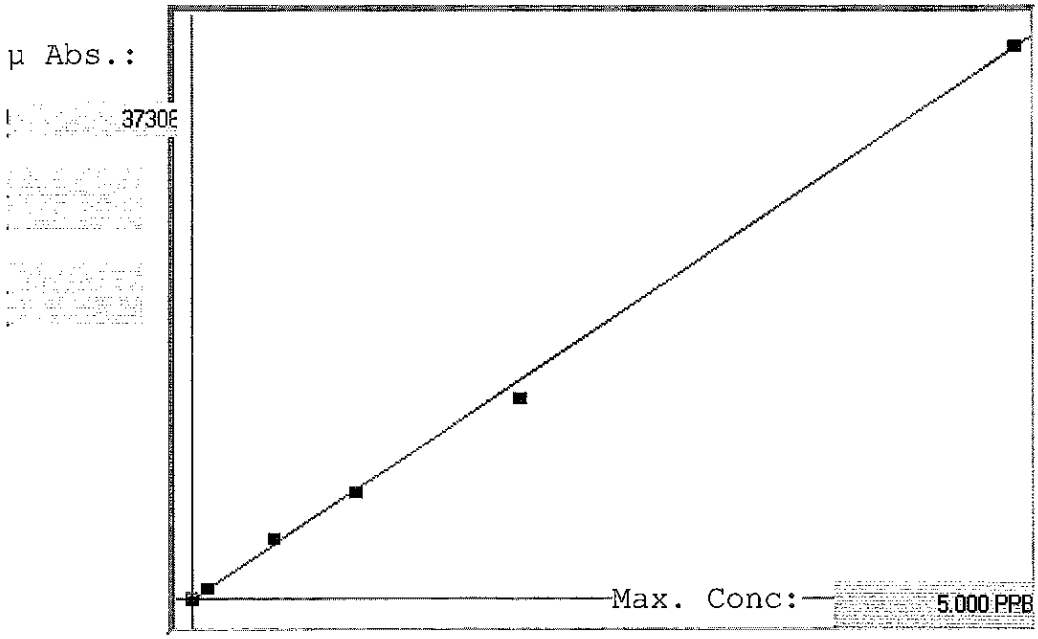
SKF0039 FF00010

Method: ARI 5 ppb (NO 0.05) Operator: Admin Date of Analysis: 02 Jun 2022 13:35:00

Sample ID	Mean	Units		Date	Method
SEQ-CAL1	0	PPB		02 Jun 2022 13:51:12	ARI 5 ppb (NO 0.05)
SEQ-CAL1	-19	PPB		02 Jun 2022 13:52:06	ARI 5 ppb (NO 0.05)
SEQ-CAL2	801	PPB		02 Jun 2022 13:54:28	ARI 5 ppb (NO 0.05)
SEQ-CAL3	4144	PPB		02 Jun 2022 13:56:48	ARI 5 ppb (NO 0.05)
SEQ-CAL4	7276	PPB		02 Jun 2022 13:59:08	ARI 5 ppb (NO 0.05)
SEQ-CAL5	13654	PPB		02 Jun 2022 14:01:28	ARI 5 ppb (NO 0.05)
SEQ-CAL6	37308	PPB		02 Jun 2022 14:03:48	ARI 5 ppb (NO 0.05)
SEQ-ICV	106.2% 4.2499	PPB	✓	02 Jun 2022 14:08:28	ARI 5 ppb (NO 0.05)
SEQ-ICB	0.0078	PPB	✓	02 Jun 2022 14:10:47	ARI 5 ppb (NO 0.05)
SEQ-CRL	120.6% 0.1206	PPB	✓	02 Jun 2022 14:13:07	ARI 5 ppb (NO 0.05)
SEQ-CCV	106.1% 4.2439	PPB	✓	02 Jun 2022 14:15:42	ARI 5 ppb (NO 0.05)
SEQ-CCB	0.0131	PPB	✓	02 Jun 2022 14:18:01	ARI 5 ppb (NO 0.05)
BKE0791-BLK1	0.0157	PPB		02 Jun 2022 14:20:22	ARI 5 ppb (NO 0.05)
BKE0791-BS1	1.9431	PPB	✓	02 Jun 2022 14:22:41	ARI 5 ppb (NO 0.05)
22E0298-01	0.1402	PPB		02 Jun 2022 14:24:59	ARI 5 ppb (NO 0.05)
BKE0791-DUP1	0.0497	PPB		02 Jun 2022 14:27:18	ARI 5 ppb (NO 0.05)
BKE0791-MS1	1.0391	PPB	✓	02 Jun 2022 14:29:36	ARI 5 ppb (NO 0.05)
22E0298-03	0.0184	PPB		02 Jun 2022 14:31:55	ARI 5 ppb (NO 0.05)
22E0298-05	0.0175	PPB		02 Jun 2022 14:34:13	ARI 5 ppb (NO 0.05)
22E0310-01	0.7651	PPB		02 Jun 2022 14:36:32	ARI 5 ppb (NO 0.05)
BKF00090-BLK1	0.0171	PPB		02 Jun 2022 14:38:52	ARI 5 ppb (NO 0.05)
22E0415-01	0.0183	PPB		02 Jun 2022 14:41:12	ARI 5 ppb (NO 0.05)
SEQ-CCV	105.8% 4.2315	PPB	✓	02 Jun 2022 14:43:31	ARI 5 ppb (NO 0.05)
SEQ-CCB	0.0125	PPB	✓	02 Jun 2022 14:45:50	ARI 5 ppb (NO 0.05)
BKF0009-DUP1	0.0193	PPB		02 Jun 2022 14:48:11	ARI 5 ppb (NO 0.05)
BKF0009-MS1	1.0102	PPB		02 Jun 2022 14:50:31	ARI 5 ppb (NO 0.05)
BKF0016-BLK1	0.0167	PPB		02 Jun 2022 14:52:52	ARI 5 ppb (NO 0.05)
BKF0016-BS1	1.9237	PPB	✓	02 Jun 2022 14:55:11	ARI 5 ppb (NO 0.05)
22E0328-01	0.0218	PPB		02 Jun 2022 14:57:31	ARI 5 ppb (NO 0.05)
BKF0016-DUP1	0.0217	PPB		02 Jun 2022 14:59:50	ARI 5 ppb (NO 0.05)
BKF0016-MS1	0.9651	PPB	✓	02 Jun 2022 15:02:09	ARI 5 ppb (NO 0.05)
22E0328-02	0.0236	PPB		02 Jun 2022 15:04:28	ARI 5 ppb (NO 0.05)
22E0328-03	0.0203	PPB		02 Jun 2022 15:06:47	ARI 5 ppb (NO 0.05)
22E0328-04	0.0192	PPB		02 Jun 2022 15:09:06	ARI 5 ppb (NO 0.05)
SEQ-CCV	105.5% 4.2189	PPB	✓	02 Jun 2022 15:11:25	ARI 5 ppb (NO 0.05)
SEQ-CCB	0.0160	PPB	✓	02 Jun 2022 15:13:43	ARI 5 ppb (NO 0.05)
22E0328-05	0.0238	PPB		02 Jun 2022 15:16:05	ARI 5 ppb (NO 0.05)
22E0328-06	0.0273	PPB		02 Jun 2022 15:18:24	ARI 5 ppb (NO 0.05)
22E0328-07	0.0264	PPB		02 Jun 2022 15:20:44	ARI 5 ppb (NO 0.05)
22E0328-08	0.0197	PPB		02 Jun 2022 15:23:04	ARI 5 ppb (NO 0.05)
22E0328-09	0.0203	PPB		02 Jun 2022 15:25:25	ARI 5 ppb (NO 0.05)
22E0328-10	0.0252	PPB		02 Jun 2022 15:27:44	ARI 5 ppb (NO 0.05)
BKF0026-BLK1	0.0177	PPB		02 Jun 2022 15:30:02	ARI 5 ppb (NO 0.05)
BKF0026-BS1	1.9661	PPB	✓	02 Jun 2022 15:32:22	ARI 5 ppb (NO 0.05)
22E0298-04	0.0161	PPB		02 Jun 2022 15:34:41	ARI 5 ppb (NO 0.05)
BKF0026-DUP1	0.0201	PPB		02 Jun 2022 15:37:00	ARI 5 ppb (NO 0.05)
SEQ-CCV	104.2% 4.1672	PPB	✓	02 Jun 2022 15:39:19	ARI 5 ppb (NO 0.05)
SEQ-CCB	0.0138	PPB	✓	02 Jun 2022 15:41:37	ARI 5 ppb (NO 0.05)
BKF0026-MS1	1.0162	PPB	✓	02 Jun 2022 15:43:57	ARI 5 ppb (NO 0.05)
22E0298-02	0.0171	PPB		02 Jun 2022 15:46:16	ARI 5 ppb (NO 0.05)
22E0298-06	0.0219	PPB		02 Jun 2022 15:48:36	ARI 5 ppb (NO 0.05)
BKF0027-BLK1	0.0190	PPB		02 Jun 2022 15:50:55	ARI 5 ppb (NO 0.05)
BKF0027-BS1	1.9226	PPB	✓	02 Jun 2022 15:53:15	ARI 5 ppb (NO 0.05)
22E0418-04	0.0702	PPB		02 Jun 2022 15:55:36	ARI 5 ppb (NO 0.05)
BKF0027-DUP1	0.0704	PPB		02 Jun 2022 15:57:57	ARI 5 ppb (NO 0.05)
BKF0027-MS1	1.3050	PPB	✓	02 Jun 2022 16:00:16	ARI 5 ppb (NO 0.05)
22E0407-01	0.0191	PPB		02 Jun 2022 16:02:36	ARI 5 ppb (NO 0.05)
SEQ-CCV	104.7% 4.1863	PPB	✓	02 Jun 2022 16:04:55	ARI 5 ppb (NO 0.05)
SEQ-CCB	0.0135	PPB	✓	02 Jun 2022 16:07:13	ARI 5 ppb (NO 0.05)

ARI 5 ppb (NO 0.05)

Linear



A= 0.0000e+000

B= 1.3488e-004

C= 1.3369e-002

Rho= 0.9991936

Accept=Accepted

Accepted Date=

06/02/22 14:15

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
SEQ-CAL1 - Blank	0.000	0.011	0.011	-19	3.399	-16	-18	-24		
SEQ-CAL2 - 0.1 PPB	0.100	0.121	0.021	801	1.0 %	811	800	792		
SEQ-CAL3 - 0.5 PPB	0.500	0.572	0.072	4144	0.4 %	4159	4121	4153		
SEQ-CAL4 - 1.0 PPB	1.000	0.995	-0.005	7276	0.8 %	7271	7349	7209		
SEQ-CAL5 - 2.0 PPB	2.000	1.855	-0.145	13654	0.4 %	13661	13579	13723		
SEQ-CAL6 - 5.0 PPB	5.000	5.046	0.046	37308	1.3 %	36669	37457	37798		

Mercury Analysis Log

Analyst: ML
Instrument: HYDRA

Date: 06-10-2022
Page: 1 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
SEQ -cal1		1X		
-cal2				
-cal3				
-cal4				
-cal5				
-cal6				
-cal1				
-cal2				
-cal3				
-cal4				
-cal5				
-cal6				
-ICV			✓ 4.24	
-ICB			✓ 0.013	
-CRL			✓ 0.120	
-CCV			X	no read; del
-CCB			✓ 4.24	
-CCB			✓ 0.013	
BKE0791 -BIK1	TWM			
-BS1			✓ 1.94	97.1 %R
22E0298 -01				
BKE0791 -DUP1				no RPD
-MS1			✓ 1.03	89.9 %R
22E0298 ~~-3ml 06/10/2022 1150~~				
-05				
22E0310 -01				
BKF0009 -BIK1	LEM			
22E0915 -01				
SEQ -CCV			✓ 4.23	
-CCB			✓ 0.012	

Chemical/Reagent ID:
10% $SnCl_2$: K5038
14% $NH_2OH/NaCl$: K4001

Standard ID:
Standard: K5236 - K5240
ICV/CCV: K5242

5026F

Revision 4
1/26/01

Mercury Analysis Log

Analyst: —

Instrument: —

Date: —

Page: 2 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
BKF0009 -DUP1	↓			RPD = 5.31
↓ -MS1	↓		✓ 1.01	99.1 %R
BKF0016 -BLK1	TWM			
↓ -BS1			✓ 1.92	96.1 %R
22E0328 -01				
BKF0016 -DUP1				no RPD
↓ -MS1			✓ 0.965	94.3 %R
22E0328 -02				
↓ -03				
↓ -04				
SEQ -CCV			✓ 4.21	
↓ -CCB			✓ 0.016	
22E0328 -05				
↓ -06				
↓ -07				
↓ -08				
↓ -09				
↓ -10				
BKF0026 -BLK1				
↓ -BS1			✓ 1.966	98.3 %R
22E0298 -04				
BKF0026 -DUP1				RPD = 22.09
SEQ -CCV			✓ 4.16	
↓ -CCB			✓ 0.013	
BKF0026 -MS1			✓ 1.016	100 %R
22E0298 -02				
↓ -06				
BKF0027 -BLK1				
↓ -BS1			✓ 1.92	96.1 %R
22E0418 -04				

Chemical/Reagent ID:

10% $SnCl_2$: —

14% $NH_2OH/NaCl$: —

Standard ID: —

Standard:

ICV/CCV: —

Mercury Analysis Log

Analyst: —

Instrument: —

Date: —

Page: 3 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
BKF0027 -DUP1				RPD = 0.28
↓ -MS1			✓ 1.30	123.4 %R
22E0407 -01				
SEQ -CCV			✓ 4.18	
↓ -CCB			✓ 0.013	

MI 06/02/22

Chemical/Reagent ID:

10% $SnCl_2$: —

14% $NH_2OH/NaCl$: —

Standard ID:

Standard: —

ICV/CCV: —

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7470A

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: HYDRA
Calibration: FF00010
Control Limt: +/- 20.00%
Sequence: SKF0039

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKF0039-ICV1	Mercury	0.0040000	0.00425	106	mg/L	EPA 7470A
SKF0039-CCV1	Mercury	0.0040000	0.00424	106	mg/L	EPA 7470A
SKF0039-CCV2	Mercury	0.0040000	0.00423	106	mg/L	EPA 7470A
SKF0039-CCV3	Mercury	0.0040000	0.00422	105	mg/L	EPA 7470A
SKF0039-CCV4	Mercury	0.0040000	0.00417	104	mg/L	EPA 7470A
SKF0039-CCV5	Mercury	0.0040000	0.00419	105	mg/L	EPA 7470A

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 7470A

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2
Instrument ID: HYDRA
Calibration: FF00010
Sequence: SKF0039
Date Analyzed: 06/02/22 14:10

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKF0039-ICB1	Mercury	0.000008	0.000013	0.000100	mg/L	
SKF0039-CCB1	Mercury	0.000013	0.000013	0.000100	mg/L	
SKF0039-CCB2	Mercury	0.000013	0.000013	0.000100	mg/L	
SKF0039-CCB3	Mercury	0.000016	0.000013	0.000100	mg/L	
SKF0039-CCB4	Mercury	0.000014	0.000013	0.000100	mg/L	
SKF0039-CCB5	Mercury	0.000014	0.000013	0.000100	mg/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7470A

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0039	Instrument:	HYDRA
		Calibration:	FF00010

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SKF0039-CAL1	TWM 06-02-22-002	NA	06/02/22 13:52
Cal Standard	SKF0039-CAL2	TWM 06-02-22-003	NA	06/02/22 13:54
Cal Standard	SKF0039-CAL3	TWM 06-02-22-004	NA	06/02/22 13:56
Cal Standard	SKF0039-CAL4	TWM 06-02-22-005	NA	06/02/22 13:59
Cal Standard	SKF0039-CAL5	TWM 06-02-22-006	NA	06/02/22 14:01
Cal Standard	SKF0039-CAL6	TWM 06-02-22-007	NA	06/02/22 14:03
Initial Cal Check	SKF0039-ICV1	TWM 06-02-22-008	NA	06/02/22 14:08
Initial Cal Blank	SKF0039-ICB1	TWM 06-02-22-009	NA	06/02/22 14:10
Instrument RL Check	SKF0039-CRL1	TWM 06-02-22-010	NA	06/02/22 14:13
Calibration Check	SKF0039-CCV1	TWM 06-02-22-011	NA	06/02/22 14:15
Calibration Blank	SKF0039-CCB1	TWM 06-02-22-012	NA	06/02/22 14:18
Calibration Check	SKF0039-CCV2	TWM 06-02-22-023	NA	06/02/22 14:43
Calibration Blank	SKF0039-CCB2	TWM 06-02-22-024	NA	06/02/22 14:45
Blank	BKF0016-BLK1	TWM 06-02-22-027	Water	06/02/22 14:52
LCS	BKF0016-BS1	TWM 06-02-22-028	Water	06/02/22 14:55
SIB-SW-AAM131-CAR-ST-050522	22E0328-01	TWM 06-02-22-029	Water	06/02/22 14:57
SIB-SW-AAM131-CAR-ST-050522	BKF0016-DUP1	TWM 06-02-22-030	Water	06/02/22 14:59
SIB-SW-AAM131-CAR-ST-050522	BKF0016-MS1	TWM 06-02-22-031	Water	06/02/22 15:02
SIB-SW-AAQ005-CAR-ST-050522	22E0328-02	TWM 06-02-22-032	Water	06/02/22 15:04
SIB-SW-AAM169-CAR-ST-050522	22E0328-03	TWM 06-02-22-033	Water	06/02/22 15:06
SIB-SW-AAM107-CAR-ST-050522	22E0328-04	TWM 06-02-22-034	Water	06/02/22 15:09
Calibration Check	SKF0039-CCV3	TWM 06-02-22-035	NA	06/02/22 15:11
Calibration Blank	SKF0039-CCB3	TWM 06-02-22-036	NA	06/02/22 15:13
SIB-SW-AAP957-CAR-ST-050522	22E0328-05	TWM 06-02-22-037	Water	06/02/22 15:16
SIB-SW-WR198-050522	22E0328-06	TWM 06-02-22-038	Water	06/02/22 15:18
SIB-SW-WR186-050522	22E0328-07	TWM 06-02-22-039	Water	06/02/22 15:20
SIB-SW-WR15-050522	22E0328-08	TWM 06-02-22-040	Water	06/02/22 15:23
SIB-SW-WR428-050522	22E0328-09	TWM 06-02-22-041	Water	06/02/22 15:25
SIB-SW-WR71-050522	22E0328-10	TWM 06-02-22-042	Water	06/02/22 15:27

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7470A

Laboratory:	Analytical Resources, LLC	SDG:	22E0328
Client:	HydroGeoLogic, Inc.	Project:	Portland Harbor Superfund Site 2021-2022
Sequence:	SKF0039	Instrument:	HYDRA
		Calibration:	FF00010

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SKF0039-CCV4	TWM 06-02-22-047	NA	06/02/22 15:39
Calibration Blank	SKF0039-CCB4	TWM 06-02-22-048	NA	06/02/22 15:41
Calibration Check	SKF0039-CCV5	TWM 06-02-22-058	NA	06/02/22 16:04
Calibration Blank	SKF0039-CCB5	TWM 06-02-22-059	NA	06/02/22 16:07

Analytical Resources, LLC
Analytical Chemists and Consultants

DETECTION LEVEL STANDARD
EPA 7470A

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022
Instrument ID: HYDRA
Calibration: FF00010
Sequence: SKF0039
Lab Sample ID: SKF0039-CRL1

Analyte	True	Found	%R	Units	QC Limts
Mercury	0.000100	0.000121	121	mg/L	70 - 130

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HOLDING TIME SUMMARY

Analysis: EPA 7470A

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-2022

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
SIB-SW-AAM131-CAR-ST-050522 22E0328-01	05/05/22 09:25	05/18/22 13:02	06/01/22 11:30	27	28	06/02/22 14:57	28	28	
SIB-SW-AAQ005-CAR-ST-050522 22E0328-02	05/05/22 08:45	05/18/22 13:02	06/01/22 11:30	27	28	06/02/22 15:04	28	28	
SIB-SW-AAM169-CAR-ST-050522 22E0328-03	05/05/22 14:38	05/18/22 13:02	06/01/22 11:30	26	28	06/02/22 15:06	28	28	
SIB-SW-AAM107-CAR-ST-050522 22E0328-04	05/05/22 15:18	05/18/22 13:02	06/01/22 11:30	26	28	06/02/22 15:09	28	28	
SIB-SW-AAP957-CAR-ST-050522 22E0328-05	05/05/22 16:40	05/18/22 13:02	06/01/22 11:30	26	28	06/02/22 15:16	28	28	
SIB-SW-WR198-050522 22E0328-06	05/05/22 08:40	05/18/22 13:02	06/01/22 11:30	27	28	06/02/22 15:18	28	28	
SIB-SW-WR186-050522 22E0328-07	05/05/22 09:12	05/18/22 13:02	06/01/22 11:30	27	28	06/02/22 15:20	28	28	
SIB-SW-WR15-050522 22E0328-08	05/05/22 09:25	05/18/22 13:02	06/01/22 11:30	27	28	06/02/22 15:23	28	28	
SIB-SW-WR428-050522 22E0328-09	05/05/22 07:00	05/18/22 13:02	06/01/22 11:30	27	28	06/02/22 15:25	28	28	
SIB-SW-WR71-050522 22E0328-10	05/05/22 00:00	05/18/22 13:02	06/01/22 11:30	27	28	06/02/22 15:27	29	28	
Duplicate BKF0016-DUP1	05/05/22 09:25	05/18/22 13:02	06/01/22 11:30	27	28	06/02/22 14:59	28	28	
Matrix Spike BKF0016-MS1	05/05/22 09:25	05/18/22 13:02	06/01/22 11:30	27	28	06/02/22 15:02	28	28	

* Indicates hold time exceedance.

Analytical Resources, LLC
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

EPA 7470A

Laboratory: Analytical Resources, LLC
SDG: 22E0328
Client: HydroGeoLogic, Inc.
Project: Portland Harbor Superfund Site 2021-202
Matrix: Water
Instrument: HYDRA

Analyte	MDL	RL	Units
Mercury	0.000013	0.000100	mg/L

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGHG1
Lot Number:	R2-HG696409
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Mercury
Starting Material:	Hg metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 3 µg/mL

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1004 ± 8 µg/mL**
ICP Assay NIST SRM 3133 Lot Number: 160921

Assay Method #2 **1003 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 3 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.001159	M	Eu	<	0.000201	O	Na		0.000435	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al		0.000090	O	Fe		0.000113	M	Nb	<	0.000201	O	Si		0.000525	M	Zr	<	0.000201
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201				
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007				
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201				
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201				
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201				
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216				
O	Ca		0.000746	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201				
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402				
M	Ce	<	0.000201	O	K		0.002007	M	Rb	<	0.000201	O	Tl	<	0.016508				
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201				
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058				
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201				
M	Cu	<	0.000402	O	Mg		0.000096	O	S	<	0.053950	M	W	<	0.000604				
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201				
M	Er	<	0.000201	M	Mo		0.000971	M	Sc	<	0.000201	M	Yb	<	0.000201				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 15, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 15, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-QCS-4
Lot Number:	R2-MEB695951
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	5 µg/mL ea: Mercury

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Mercury, Hg	5.011 ± 0.023 µg/mL		

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	061204
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The follow ing equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 20, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 20, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director